

Patter Effects Labs. Pvt. Ltd.

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Bangalore – 560078

Karnataka

Corporate Identification Number (CIN):

U74999KA2017PTC103264, ROC Bangalore




PATTERN EFFECTS
SIMPLYFYING AI

CERTIFICATE

This is to certify that **Mr. Pavan Madhukar Kalkoti** student from Acharya Institute of Technology, Bangalore, has done his project titled "**Comparative Study on Risk and Return of Equity**" in our company "Pattern Effects Labs Private Limited" from January 15th 2018 to March 24th 2018.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.

For Pattern Effects Labs


Harshitha S



Human Resource,

Pattern Effects Labs Pvt. Ltd.

Bangalore, India



ACHARYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi, Approved by AICTE, New Delhi and Accredited by NBA and NAAC)

Date: 25/05/2018

CERTIFICATE

This is to certify that **Mr. Pavan Madhukar Kalkoti** bearing USN **1AZ16MBA47** is a bonafide student of Master of Business Administration course of the Institute 2016-18 batch, affiliated to Visvesvaraya Technological University, Belgaum. Project report on **“A Study on Risk and Return Analysis of Equity Stocks, at Pattern Effects Labs Pvt. Ltd, Bangalore”** is prepared by him under the guidance of **Prof. Om Prakash. C**, in partial fulfillment of the requirements for the award of the degree of Master of Business Administration, Visvesvaraya Technological University, Belgaum, Karnataka.

Signature of Internal Guide

Signature of HOD
Head of the Department
Department of MBA

Acharya Institute of Technology
Soldevanahalli, Bangalore-560 107.

Signature of Principal
PRINCIPAL

ACHARYA INSTITUTE OF TECHNOLOGY
Soldevanahalli Bangalore-560 107

DECLARATION

I, PAVAN MADHUKAR KALKOTI, hereby declare that the Project report entitled "A study on risk and return analysis of Equity stock" with reference to "Pattern Effects labs Pvt ltd. Bangalore " prepared by me under the guidance of Prof Om Prakash, faculty of M.B.A Department, Acharya Institute of Technology, Bangalore and external assistance by Miss Harshita Pattern Effects labs Pvt ltd.

I also declare that this Project work is towards the partial fulfilment of the University regulations for the award of degree of Master of Business Administration by Visvesvaraya Technological University, Belgaum.

I have undergone a summer project for a period of Ten weeks. I further declare that this project is based on the original study undertaken by me and has not been submitted for the award of any degree/diploma from any other University / Institution.

Place:

Date:



Signature of the student

ACKNOWLEDGEMENT

I deem it a privilege to thank our Principal, Dr. Sharanabasava C Pilli, Dr. Mahesh, Dean Academics and our hod Dr. Nijaguna for having given me the opportunity to do the project, which has been a very valuable learning experience.

I am truly grateful to my internal research Guide, Prof Om Prakash, and my external guide Miss Harshita, Pattern Effects Labs Pvt Ltd. for their research guidance, encouragement, and opportunities provided.

I wish to thank all the respondents from the firms who spent their valuable time in discussing with me and giving valuable information and guidance.

My sincere and heartfelt thanks to all my teachers at the Department of MBA, Acharya Institute of Technology for their valuable support and guidance.

Last, but not least, I want to express my deep appreciation to my parents for their unstinted support.

TABLE OF CONTENTS

CHAPTER NO	TOPIC	PAGE NO
1	INTRODUCTION	
	1.1. Introduction	1
	1.2. Industry profile	2
	1.3. Company profile:	4
	1.3.1. Promoters	5
	1.3.2. Vision, Mission & Quality Policy.	5
	1.3.3. Products / services profile	5
	1.3.4. Areas of operation	5
	1.4. Competitors' information	6
	1.5. SWOT Analysis	7
	1.6. Future growth and prospects	8
	1.7. Financial Statement	8
2	CONCEPTUAL BACKGROUND AND LITERATURE REVIEW	
	2.1 Theoretical background of the study	9
	2.2. Literature review with research gap	15
3	RESEARCH DESIGN	
	3.1 Statement of the problem	18
	3.2 Need for the study	18
	3.3 Objectives	19
	3.4 Scope of the study	19
	3.5 Research methodology	20
	3.6 Limitations	21
	3.7 research design end	21

4	ANALYSIS AND INTERPRETATION	
	4.1 Data	22
	4.2 Data Analysis	22
	4.3 Interpretation of Data	22
	4.4 Statistical Tools results	22
5	SUMMARY OF FINDINGS, CONCLUSION AND SUGGESTIONS	
	5.1 Findings	56
	5.2 Conclusions	58
	5.3 Suggestions/ Recommendations	59

LIST OF TABELS

TABEL NO	TOPIC	PAGE NO.
1.1(A)	TABLE SHOWING CALCULATION OF HDFC SCRIPT for 2015-2017	32
1.2(A)	TABLE SHOWING CALCULATION OF ICICI BANK for 2015-2017	38
1.3(A)	TABLE SHOWING CALCULATION OF TCS SCRIPT for 2015-2017	42
1.4(A)	TABLE SHOWING CALCULATION OF INFOSYS SCRIPT for 2015-2017	48
1.5(A)	TABLE SHOWING CALCULATION OF TATA MOTORS SCRIPT for 2015-2017	56
1.6(A)	TABLE SHOWING CALCULATION OF MAHINDRA AND MAHINDRA SCRIPT For 2015-2017	62
1.7	TABLE SHOWING COMBINATION OF THE INVESTING PATTERN OF EACH SECTOR INDICATING DIFFERENT CRITERIA	63

LIST OF GRAPHS

GRAPH NO	TOPIC	PAGE NO.
1.1	GRAPH SHOWING CALCULATION OF HDFC SCRIPT for 2015-2017	37
1.2	GRAPH SHOWING CALCULATION OF ICICI BANK for 2015-2017	41
1.3	GRAPH SHOWING CALCULATION OF TCS SCRIPT for 2015-2017	45
1.4	GRAPH SHOWING CALCULATION OF INFOSYS SCRIPT for 2015-2017	49
1.5	GRAPH SHOWING CALCULATION OF TATA MOTORS SCRIPT for 2015-2017	57
1.6	GRAPH SHOWING CALCULATION OF MAHINDRA AND MAHINDRA SCRIPT For 2015-2017	64

Executive Summary

The project program is an important part of the educational curriculum. An project is a pre-professional experience that provides an opportunity to gain relevant knowledge and skills prior to starting out in a particular career field. project exposes students to the problems and challenges faced by organizations in their day-to-day business. It helps them to understand the business operations being performed by the companies. The students can get a more clear understanding of the theoretical knowledge gained through education when they observe these concepts being practiced by individuals in the organization. This project was taken up as a part of the requirement of Master of Business Administration course per the requirements of VTU.

The project was undertaken at Pattern Effects Labs private limited. It deals with investment advisory and brokerage services. They provide the most comprehensive investment advisory services for the full range of capital market products. The objective of in plant training is to enable a better understanding of working in the organization and to develop a comparative approach between the theory and practical application.

The study has been undertaken on the topic of “A study on risk and return analysis of Equity stock” the main objective of the study is to analys and predetermination stock risk and return

The project report covers company profile, industry profile, theoretical background of the study, data analysis and interpretation, and provides recommendations based on the findings and the conclusion. It also contains the financial statements of the company.

CHAPTER-1

1.1 INTRODUCTION TO MARKET

Stock meaning

In Finance area, a Stock speaks to an offer in the responsibility for Incorporated Company. In modern division riches is utilized as a part of generation is claimed in the total for the most part by companies as opposed to by people in light of the enormous venture prerequisites. This pattern started in seventeenth Century in England, when vendors shaped Joint-Stock organizations, pooling capital which is to be utilized mutually in exchanging and assembling. Consequently members got profits, offers of the basic benefit to their unique speculations.

Stock can be characterized as:

Stock is an offer in the responsibility for organization. Stock speaks to a claim on the organization's advantages and income. As you obtain more stock, your possession stake in the organization ends up more noteworthy. Offers, Equity or stock all are one and the same.. The remuneration or the profits of individual relies upon the speculation made in organization, which will help them to expand the riches. The most imperative regular securities are Bonds and Stocks. Corporate securities confirmation of corporate obligation to the bondholder. Stocks are proof of Ownership or value, Investors purchase stocks in light of the fact that to procure benefit as far as profits and accepting that their stock esteem will develop.

Kinds OF STOCKS

There are 2 stocks :

*Equity stocks

*Preference Stock

Basic Stock

At the point when individuals discuss stocks they are normally alluding to regular stocks. Truth be told, the lion's share of stock issued is in this frame as it were. Normal offers speak to proprietorship in organization and a claim (Dividend) on a segment of benefits. Financial specialists get one vote for every offer to choose board individuals, who supervise the significant choices made by administration. Over the long haul, consistent stock yields higher returns than by methods for capital development relatively every other speculation. It yields higher returns so hazard related with this is high. On the off chance that an organization goes bankrupt and sells, the regular investors won't get cash until the loan bosses, debenture holders, inclination investors are paid.

- **Preferred Stock**

Favored stock speaks to some level of possession in an organization yet more often than not does not accompany same voting rights. (This may fluctuate contingent upon the organization). Inclination investors will be ensured settled rate of profit everlastingly independent of the benefits of an organization. The other favorable position of holding inclination share is that on the off chance that liquidation of an organization inclination investors are paid off before general investor (But still after Debenture holders). Favored stock may likewise be callable, implies that the organization has the alternative to purchase the offers from investors whenever for any reason (Usually for a premium). A few people view favored stock as more like obligation than value. A decent method to think about these sorts of offers is to consider them to be being in the middle of bonds and general offers.

STOCK EXCHANGE IN INDIA

The market for long haul securities like securities, value stock and favored stocks are separated as First Markets and Second Markets. The essential bazaar manages issue securities. Extraordinary securities are exchanged optional market which is normally known

as securities exchange or stock trade. In the auxiliary market financial specialists can offer and purchase securities. Stocks showcases overwhelmingly bargains in value shares. Obligation instruments like securities and debentures are likewise exchanged securities exchange. Securities exchange gives very much controlled and dynamic stage for capital arrangement. Development of the essential market relies upon securities exchange.

Elements off MARKET OF STOCK

- Gives citations for sharess and stocks for encouraging exchanging & attractiveness.
- expand liquidity for such stockss as they are effortlessly attractive.
- Increases reserve funds and interest in the economy by drawing in stores for speculation consolidate shares securities.
- Safe and reasonable managing.
- Maintain dynamic exchanging.

TWO FAMOUS STOCK EXCHANGES IN INDIA

1. National Stock Exchange of INDIA(NSE)
2. Bombay Stock Exchange of INDIA(BSE)

NATIONAL STOCK EXCHANGE (NSE)

The logo of NSE symbolizes across the nation securities exchanging and different offices with equivalent and reasonable access for all financial specialists and other related gatherings everywhere throughout the nation. The of the trade ie N, S and E have been joined on the logo and are particularly unmistakable. Aside from this, it likewise symbolizes network to realize the change inside securities industry, liveliness and releasing of inventive vitality for bringing steady change through advancements.



National Stock Exchange of India Limited

The National Stock Exchange (NSE) is India's driving stock exchange covering diverse urban groups and towns the country over. NSE was set up by driving foundation to give a front line, totally automated screen-based trading structure for speed and capability, close by ensuring security and uprightness. It has the workplaces to fill in as a model for the securities business to the extent structures, practices and procedures..

NSE has assumed a reactant part in the Indian securities advertise as far as microstructure, showcase practices and exchanging volumes. Today the market utilizes condition of-craftsmanship data innovation to give a proficient and straightforward exchanging, clearing and settlement system and has seen a few advancements in item and administrations viz., Dematerialization, Securities loaning and acquiring, professionalization of exchanging individuals, hazard administration , rise of clearing organizations to accept counterparty chance, market of subordinate instruments and serious utilization of data innovation.

ESTABLISHERS

NSE has advanced for driving budgetary organizations, Banks , Insurance Companies and numerous money related delegates.

- Industrial Development Bank of India Limited(IDBI)
- Industrial Finance Corp of India
- Life Insurance Corp of India
- SBI
- ICICI
- SBI Capital Market Limited
- Baroda bank

- Canara Bank of India
- General Insurance Corporation India

(NSE) wound up ready market fragment on 5 November in Bombay. The foundation for NSE lies in proposals of the Pertain Committee 1997. Aside NSE it has prescribed to foundation Of National Stock Market deformities signposted.

- Be short of liquidity in the majority the Indian environment as far as profundity and broadness.
- Lack of capacity to create markets for obligation in India
- Lack of framework offices and obsolete framework.
- Lack of straightforwardness in the activities that impact financial specialist's certainty and trust.
- Outdated settlement framework that are lacking to take into account the developing volumes, prompting delay.

THE MAIN OBJECTIVES OF NSE

- Establish a the country over trading office for values, commitment instruments and half and parts.
- To guarantee measure up to admission to all speculators all over throughout nation from end to end suitable post arrange.
- To give a sensible, productive and basic stocks market to financial specialists utilize an electronic correspondence arrange.
- To empower shorter settlement cycle and book section framework settlement.
- Meeting current worldwide principles of securities advertise.

Favorable circumstances OF NSE

- Wider Accessibility

The NSE guarantees more extensive openness through satellite connected office PC innovation terminals and connected with VSAT causes the exchange to contact to partners in different parts of the nation rapidly. The fast exchanging framework guarantees better estimating.

- Non-revelation exchanging part's personality

Part's character won't be uncovered while putting in a request, and its need not to be indicated unless the part need to show to everybody. So with no dread part can purchase or submit a request at any cost.

- Effective settlement of Corporate advantages

Each money related advantages, held up profit, premium and reclamation sum asserts on organization's complaints are charged/attributed straightforwardly to clearing record of the clearing individuals. This lessens the issues looked by the individuals in settlement of corporate points of interest.

Late TRENDS IN NSE

- Expansion

In the wake of building up task in Mumbai, the NSE had extended its activity to alternate parts; NSE has introduced 2580 VASTS in 318 urban communities the nation over.

- High liquidity

With its online framework and quick exchanging offices the NSE has brought some liquidity into the capital market. In the last quarter 1998, the NSE was more fluid for the 839 pieces that represented 94% of aggregate exchanging volume. In number of exchanges, a pointer of the nearness of the retail speculator, NSE was in front of the BSE in India.

- Less Brokerage

Straightforwardness in NSE permits the separating of the expenses into business charge, showcase affect expenses and clearing and settlement. The financier expense at the BSE terminals outside Mumbai is just 0.5% of the esteem executed. On the NSE, it's around 0.1% of the esteem executed.

BOMBAY STOCK EXCHANGE (BSE)



The Bombay Stock Exchange Limited is a standout amongst the most prepared Stock Exchange in Asia with a rich heritage of over 138 Years of essence. In the great 'ol days, BSE was set up as "The Native Share and Stock Brokers Association". It was set up in the year 1875 and transformed into the essential stock exchange India to be seen by the Government. In 1956, BSE got an unchanging affirmation from the Government of India under the Securities Contracts Regulation Act 1956. Today BSE is the world's fundamental exchange the extent that the amount of recorded associations and the world's fifth in treatment of trades through its electronic trading structure.

The associations recorded on BSE arrange a total market capitalization of USD Trillion 1.24 as of March, 2014. BSE ranges to in excess of 430 urban groups and town the country over and has around 5,381 (as of May, 2014) out of which 1294 associations are in suspended order and 4087 associations are fit the bill for trading.

THE BSE ON-LINE TRADING (BOLT)

BSE On-Line Trading (BOLT) framework was presented on fourteenth Mar 1995. It encourages on-line screen based exchanging different securities. Jolt is presently working in

25,000 Trader Workstations situated crosswise over more than 369 urban communities in India

BSE VISION

"Rise as chief Indian stock trade with best-in-class worldwide practice in innovation, items advancement and client benefit".

BSE PROFILE in a word

- Address: Dalal Street, Mumbai, India
- Website: www.bseindia.com
- Trading hours: Monday too Friday, 9:15 to 3:30
- Securities: Stocks, Derivatives, Debts.
- Trading System: Electric form

HISTORY OF BSE

The Bombay Stock Exchange is known as the most seasoned stock trade in Asia. It follows its history to the 1850s, when stockbrokers would accumulate under banyan trees before Mumbai's Town Hall. The area of these gatherings changed commonly, as the quantity of agents always expanded. The gathering in the end moved to Dalal Street in 1874 and in 1875 turned into an official association known as 'The Native Share and Stock Brokers Association'. In 1956, the BSE turned into the primary stock trade to be perceived by the Indian Government under the Securities Contracts Regulation Act.

Verifiably an open-cry floor exchanging trade, the Bombay Stock Exchange changed to an electronic exchanging framework in 1995. It took the trade just fifty days to make this change.

Lists OF BSE

- Sensex

- BSE's 100 (This spreads saving money segment)
- BSE 200 (This spreads capital merchandise)
- BSE 500 (This spreads customer merchandise)
- BSE mid-top list
- BSE little top list

Honors RECEIVED BY BSE

- BSE has won the India Innovation Award for the Big Data Implementation.
- It has won NASSCOM - CNN-TV19's IT Award, 2000 in Finance class.
- It has won SKOCHRA Virtual Corporation 2007 Award in the BSE Star CF class.
- Responsibility Award (CSR), by the World Council of Corporate Governance
- Annual Reports and Accounts of BSE has given the ICAI grants for rightness monetary announce for 5 continuous years from 2007 onwards.

THE CAPITAL MARKET

INDIAN CAPITAL MARKET

Capital market consist of the following

1 Primary market

2 Secondary Market

The capacity of monetary market is to encourage the exchange of assets from surplus areas (loan specialists) to shortage segments (indebted individuals). Regularly, families have overabundance of assets or investment funds, which they loan to account holders in the corporate and open areas whose prerequisite of assets far surpasses their reserve funds

1.1 INDUSTRY PROFILE

Stock is a security issued as offers that connote to ownership interests in an association. There are both basic stocks specifically offers or value and proffered stock. Basic financial specialists pick the association's representing body and viably partake in the association's thriving or dissatisfaction through a rising or falling stock cost. Normal stock financial specialists may in like manner get benefits, gave the association is helpful, responsibilities regarding business banks and investors have been met and the board needs to declare them. If there should be an occurrence of liquidation, regardless, fundamental speculators have no benefit on assets until the point when each and every different duties of the firm have been met. They may have pre-emptive rights to save their rate obligation regarding firm.

Bombay stock Exchange is the most settled stock exchange Asia with an amusing inheritance, now spreading more than three centuries in its 131 years of quality. BSE was set up as "the Native Share and Stock Brokers Association" in 1875. BSE is beginning stock exchange the country which got steady distinguishing proof (1955) from the Government of India in the Securities Contracts Regulation Act 1956. BSE's critical and pre-well known part in the headway of the Indian capital market is comprehensively perceived. It repositioned from the open complaint system to an online screen-based demand decided trading structure in 1996.

Present SCENARIO

The present status of Indian market has decidedly moved progressing. There is an incomparable straightforwardness and minute trade. Every Indian security trades are at present web exchanging has turned into a typical marvel. Indian securities trades have developed dynamic nature and can change from bullish temper to a bearish slide. Any little bit of information or even talk from any bit of the country can impact the market and is truly exact marker of the basic atmosphere in the place or country. People from the country over and globe associate with minute learning readings on the stock trade and get a significant measure of trading slant after step by step watching BSE stock benefiter or BSE Top Losers list which completes a great deal of good to their theory.

1.2 COMPANY PROFILE



PatternEffectslabs is a new business built up on 24th of May,2017.which chips away at securities exchange particularly on choices . As of late it is additionally building up a product for getting customers and furthermore for general society which is a paid administration. To build up that product there must be a considerable measure of specialized and also key investigation is required and the organization is as of now chipping away at it. The parent organization is EDINTURE SERVICES.

About Edinture

We are a Skill advancement organization established by Industry veterans to satisfy ability hole existing in showcase today. We represent considerable authority in Entry Level Talent Management arrangements cutting over the entire lifecycle of Sourcing, Assessments, Training and On-boarding. Our creative and redid arrangements will help you in radically chopping down the cost and time of procuring and preparing. Our conclusion to-end Talent Management Services incorporate 'Contract the Assessed', 'Contract and Train' and 'Prepare the Hired'.

We likewise furnish learning improvement benefit by working with open, private, and schools in the K12 school segment. The Education Company works straightforwardly with

school executives, educators, and care staff to explain the most squeezing discipline challenges in schools today.

Administration Provided

Ability Supply Chain Management

Fresher Training and Recruitment

We represent considerable authority in Entry Level Talent Management arrangements cutting over the entire lifecycle of Sourcing, Assessments, Training and On-boarding. Key Benefits of this program are as per the following

- Up to 90% decrease in Fresher procuring costs
- Get prepared + Assessed fresher at insignificant expenses
- Reduction in cost for greenfield preparing of fresher over all specialty abilities
- Get beneficial fresher from day 1

Competency Assessment

Our Online Competency Assessment is one-of-its-kind administration which gives logical bits of knowledge

on the specialized capability levels of representatives

- Get bits of knowledge into capability levels of workers over numerous measurements
- Analyze preparing viability
- Plan preparing and reskill prerequisites

Aptitude Development

Aptitude Development For Technical and Business Schools

Overhaul abilities to universal principles through huge industry contribution and create important systems for gauges, educational programs and quality confirmation. Give showcase confronting expertise advancement bringing about quicker retention into ventures.

Quick Mobilization and Recruitment Service

We spend significant time in selecting tasks for sourcing the best ability in Information Technology for customers . We can give IT experts able and talented in the most recent innovation and best practices. Key advantages of this program are as per the following;

- Get up to 90% change rates
- 100% match of hopeful profile with necessity
- Candidates met by industry SMEs before sending them for interviews with customers
- Preliminary aftereffects of Interviewed competitors crosswise over five measurements

School advancement and administration

We oversee obtainment exercises for the school division, empowering schools, focuses, to rapidly find important items and administrations in an auspicious way and at aggressive costs. This territory underpins schools by getting instructional supplies, course readings, furniture, hardware, and related administrations; sets up contracts through the aggressive and noncompetitive process and through helpful concurrences with national consortiums; reviews responsible gear all through the school division; and keeps up standard hardware rules for preparing new or revamped schools with the important hardware and furniture.

Innovation answers For Schools

Edinture is a head supplier of value instructive administrations offering world-class answers for upgrade the Online instructive condition internationally. The one-stop-site for advancement, e-learning, correspondence arrangements, Edinture works with experienced

teachers and technocrats over the globe in planning and creating computerized instructive assets, gateways and learning administration frameworks for enhanced correspondence and simple access to syllabus-particular lessons on Science, Mathematics, English and Social Studies. Be it computerized content on 3D, web based mentoring administrations, ICT courses or School Online Information Systems, every one of our items, instructive apparatuses, preparing and bolster material and administrations are all around examined and tried, giving fitting answers for make understudy progress at all levels

1.3 PROMOTERS

Shashilumar Jagatageri Math

Shivshankar Das.

1.4 VISION

- To accomplish and manage showcase administration, Pattern impacts should go for finish consumer loyalty, by joining its human and innovative assets to give world class quality administrations.
- In the procedure Pattern impacts should endeavor to meet and surpass consumer loyalty's and set industry measures.
- Their esteems and vision of achieving all out capacity in their adjusting has filled in as the building obstruct for making extraordinary money related undertaking, which stands strong on their fortifications of monetary quality their organizations.

1.4 MISSION

- "Our mission is to lead and favored administrations supplier to our clients, and we plan to accomplish this initiative by building an inventive, venturesome and skill driven association which will most noteworthy principles of administrations and business morals"

1.4 QUALITY POLICY

- Guaranteeing clear relationship with its customers by issuing Build in-house frames.
- In request to keep up guarantees with its clients it has made an accomplice relationship by methods for its speculator's administration operators and merchants help.
- Offer better nature of work for all its staff and outfit them with adequate data and aptitudes in order to respond client's needs.
- Strive to be reliable establishment of significant worth supplementary money related items, administrations and constantly coordinate the people and association in a making sensible option of the same.

1.5 AREAS OF OPERATION

Head Office-Pattern impacts labs private restricted

R.K Colony second Phase ,J P Nagar Bangalore

1.6 INFRASTRUCTURE FACILITIES

Online openness to represents exchange to offer extra solace to a specific and business speculators. The latest inventive ability outlined exclusively to their Demat section and innovative up degree is SPEED-E which is in charge of quick and fast and furthermore superbly conveyance of exchanges. Wide national frameworks make their productivity accessible to everybody.

Offices Management benefit gives building support administrations, Lighting at work region, Work zone appearances, Pantry Services, Landscape upkeep administrations.

1.7 COMPETITORS INFORMATION

- Kotak Securities
- Religare
- India Infoline



Kotak is an optional of Kotak Bank, is stock broking and circulation hand of the Kotak Mahindraa Groups. It is corporate individual from both the BSE of INDIA & NSE of India. Its stocks was recognized in 1995 and is in Bombay. the stock representative offers administrations, for example, share exchanging, subordinates exchanging, common assets, Exchange Traded Funds, Currency Derivatives, Tax Free securities, portfolio administration, Stock Lending and Borrowing and Interest Rates Futures.



Religare Enterprises Limited (REL) is holding organization for one of India's driving enhanced budgetary administrations gatherings, headquartered in New Delhi, India. It offers a coordinated suite of budgetary administrations through its fundamental auxiliaries and working substances, incorporates Loans to Small and Medium Enterprises (SME)'s,



The association was started by Nirmal Jain. IIFL and its gathering organizations are supported by Canadian financial specialist Prem Watsa, private value firm General Atlantic and CDC Group, the England Government's private value arm.

1.8 SWOT ANALYSIS

Qualities

- Well set up corporate frame.
- Many speculation choices for the customers.
- The best speculation designs depend on bona fide investigate.

- Lower business and other administration
- all around qualified and faithful staff.

Shortcoming

- Time devouring
- Lack of mindfulness among the general population

Openings

- In India, there is a completely open market accessible and furthermore capital market.
- Updating new innovation help to give great administration to financial specialists at better speed with productivity.
- Increase in spending energy of the speculators.

Dangers

- Decrease in financier cost.
- Increase in rivalry.
- Instability in securities exchange in India.

1.9 FUTURE GROWTH AND PROSPECTS

- Total riches held by people in India has developed by 10% to achieving a characteristic of Rs.344 lakh crores in FY2018.
- Individual riches in Financial in monetary resources developed by 14.67% to reach achieving an estimation of Rs.209lakh crores in FY2018.
- Individual riches in physical resources remained at Rs. 147 lakh crores backing off to a minor rate of 5.99%.

CHAPTER 2

2. Applied BACKGROUND AND LITERATURE REVIEW

2.1 THEORETICAL BACKGROUND OF THE STUDY

Prologue TO RISK and RETURN

Venture is the work of assets with the objective of accomplishing extra wage or development in esteem. The basic nature of a speculation is that it includes to seek a reward. It includes the dedication of assets which have been shielded or secured from current utilization with the expectation that a few advantages will gather in up and coming. The expression "Speculation" does not have all the earmarks of being as straightforward as it has stayed characterized. Speculation has been additionally arranged by money related specialists and financial specialists. It has likewise regularly been mistaken for the term hypothesis. The resulting talk will give a clarification of the different manners by which venture is connected or separated from the money related and monetary sense and how hypothesis contrasts from speculation. Notwithstanding, it must be unmistakably settled that speculation includes long haul responsibility.

Hazard (RISK)

Risk means possibility of loses and some risks can be controlled by the organization through various strategies.

Hazard CONSISTS OF 2 COMPONENTS

1. Precise hazard (Uncontrollable Risk) or Non-Diversifiable hazard
2. Unsystematic hazard (Controllable Risk) or Diversifiable hazard

1. Orderly RISK (UNCONTROLLABLE RISK) OR NON-DIVERSIFIABLE RISK

The hazard that influences the all market, the variables are outside the ability to control of the corporate and the financial specialist. They can't be dodged by the financial specialist.

It is sub-isolated into-

- a) Market hazard
- b) Interest rate hazard
- c) Purchase control hazard

2. UNSYSTEMATIC RISK (CONTROLLABLE RISK) DIVERSIFIABLE HAZARD

The unsystematic hazard is single and impossible to miss to a firm or an industry. Unsystematic Risk originates from administrative wastefulness, innovative change underway process, accessibility of crude material, changes in client inclination and work issues. The nature and greatness of the previously mentioned factors contrast from industry to industry and friends to organization..

It is grouped as 2 writes

1) BUSINESS RISK

- Internal chance
- Fluctuations in deals
- Research and improvement
- Personal administration
- External hazard (P, E, S, T factors)

2) FINANCIAL RISK

- It is related with the capital structure of the organization.

RETURNS

A noteworthy motivation behind venture is to set profit of salary for the assets contributed. On bond a financial specialist hopes to get intrigue. On stock, profits might be anticipated.

The speculator may expect capital additions from a few ventures and rental wage from house property. Return are of a few structures.

Estimation OF RETURNS

The motivation behind venture is to get profit or pay for the assets put resources into various monetary resources. The most huge qualities of monetary resources are the size and fluctuation of their future returns. Since the arrival on salary differs, various factual procedures are utilized to quantify it. Throughout the years, numerous strategies were embraced for measuring yields. These are presently arranged as conventional and current methods estimation.

Conventional METHOD OF MEASUREMENT

Calculation of respect measure budgetary resources return is the least difficult and most established procedure of estimation. Yield can be both expected or anticipated and real for a specific period. The equation used to discover yield is:

an) Estimated Yield = $\frac{\text{Expected Cash Income}}{\text{Current Price of Asset}}$

Current Price of Asset

b) Actual Yield = $\frac{\text{Cash Income}}{\text{Sum invest}}$

Sum invest

yield that computed is for specific period to discover the arrival on the sum that is contributed. For instance, the yearly yield on the UTI is the profit wage by the sum contributed.

Estimating RETURNS MINUS(-) IMPROVED TECHNIQUE

The holding time frame yield is one of the new system in estimating returns. The conventional techniques did not give agreeable returns measure. A portion of the holes that were recognized are:

(a) The customary strategy does not recognize isolated and livelihoods parcel that the organization holds (Earnings Yield Method).

(b) Dividend Yield Method rebates the likelihood of value thankfulness on held income. It is helpful just for those investors who wish to hold stocks dependably and are not inspired by offering and thwart that profits are not going to change.

(c) The respect development is valuable just to those investors who will hold it to development. All financial specialists may not hold bonds till development for clear reasons. These strategies are in this manner known to fill constrained need as it were.

The better technique measures return through the holding time frame yield. This measure appears to be more discerning and obviously characterized.

It fills 2 needs:

(an) It quantifies the aggregate return per rupee of unique venture

(b) Through this technique, correlations can be drawn of any benefits expected return. A benefit can be contrasted and other, both verifiably and for future period.

The holding time frame yield can be utilized for any advantage. For instance comes back from investment accounts, stocks cash, land and bonds can be thought about through this measure,

The equation for the holding time frame yield:

$$HPY = \text{Dividend} + (P_t - P_o)$$

P_o

Where,

Profit - Income got amid the year in Rs.

$P_t - P_o$ - Capital Change for the Period in Rs.

P_o - Price in Rupees of Original speculation toward the starting time frame

This recipe demonstrates that the Holding Period Yield (HPY) contemplates everything the speculator gets over the predefined period amid which the benefit held in respect to what was

initially put resources into the advantages. It likewise ponders all wage installments; and positive and negative capital changes amid the period. These are then estimated in respect to unique interest in rupees. The HPY measures past receipts of installments and also for an obscure future. It is helpful for looking at whenever period; it can be utilized on both Bond and Shares.

THE SECURITY RETURN/MARKET RETURN IS CALCULATED AS FOLLOWS

- Present day: Security Return (minus)- Today's Price–Yesterday's $\times 100$
(previous)Yesterday amount.

- Today Mkt Return - Today Index–Yesterday's $\times 100$
(previuos)Yesterday Index.

MEASURE OF DISPERSION

Scattering techniques help to survey hazard in accepting prize or quantifiable profit. The more prominent the potential scattering, the better is the hazard. One of the least complex technique in computing scattering is extend. The range, however has restricted position. It is valuable when there are little examples. It loses its adequacy when the quantity of qualities in test increments. The best and best technique to discover how the information scattered around recurrence circulation is to utilize the standard deviation strategies.

Factually STANDARD DEVIATION AND BETA ESTIMATION HELP TO QUANTIFY THE RISK.

STANDARD DEVIATION

The Standard Deviation is measure of the Variable wherever its mean or it is square foundation of the Sum of the Square root deviations from mean partitioned the quantity of perceptions.

Standard Deviation is utilized to quantify Variability of return i.e. the measure of scattering. Standard deviation is ascertained as square base of variety.

In back speculations unpredictability i.e. S.D is otherwise called an authentic instability and it is utilized by the financial specialists as a measure from the produced of unpredictability.

$$S.D (\delta) = \sqrt{\sum(x-x)/n}$$

Where

X-Return of stock

x - Average return of stock

N-No. of Months

BETA

Beta demonstrates the connection between the securities return and the file/(INDEX)returns.

1) Beta - +1.0

One percent change in the market file returns causes precisely one percent change in the security return. It demonstrates that the security moves in cycle with the market.

2) Beta - +0.5

One percent change in the market list returns causes 0.5 percent change in the security return. The security is less unstable contrasted with the market.

3) Beta - +2.0

One percent change in the market list return causes 2% change in the security return. The security returns is more unpredictable. At the point when there is a decay of 10% in the market restore, the security with Beta of 2 would give a negative return of 20%. The security with in excess of 1 Beta esteem is thought to be hazardous.

4) Beta - Negative

Negative Beta Value demonstrates that the security return moves the other way to the market return. A security with a negative beta of - 1 would give an arrival of 10%, if the market return decreases by 10% and the other way around.

$$\beta = \frac{\sum XY - \frac{\sum X \sum Y}{n}}{\sum X^2 - \frac{(\sum X)^2}{n}}$$

Where,,

n- Number of perceptions

X- Sum of environment list esteem

Y- Sum off come back to NAV

ALPHA

Alpha speaks to figure of lingering return, which we think about the future return of any portfolio. Alpha measures unsystematic danger of a portfolio properties in light of the fact that the portfolio property likewise comprises of both lingering return and future desires.

Remember that the hazard free portfolio will dependably indicate Zero lingering return, thus any riskless security like money will have constantly Alpha equivalent to 0

Equation is

$$\text{Alpha } \alpha = Y + \beta x$$

Where

Y-Average Return to NAV Return

X-Average Return to Market Index

Correlation

The Correlation co-productive demonstrates the nature and the degree of connection between the share trading system record return and stock return in a specific period.

$$r = \frac{\sum XY - \frac{\sum X \sum Y}{n}}{\sqrt{(\sum X^2 - \frac{(\sum X)^2}{n})(\sum Y^2 - \frac{(\sum Y)^2}{n})}}$$

The square base of the Correlation Co-effective is the Co-proficient of assurance. It gives the level of variety in stock's arrival clarified by the variety in the market's arrival.

The Co-productive of Determination is the square of the Correlation co-effective.

$$r^2 = (r)^2$$

It gives the level of variety in the stock's arrival clarified by variety in the market's arrival.

2.2 LITERATURE REVIEW WITH RESEARCH GAP

- A. K. Dubey (2017) influenced an endeavor in breaking down time to scale reliance of orderly danger of stocks for developing business sector economy. The aftereffect of the examination demonstrated that the betas were progressively and less instable as far as various exchanging stocks at various speculation skylines. The examination was embraced on premise of the attributes of the heterogeneous financial specialists with various speculation skylines. In this examination, it was focused on that holding diverse stocks by exchanging classes changed because of time skyline of venture and view of the hazard. The investigation stressed states of business are extremely liquid i.e. the rate of progress happens in period of association as quick as could be expected under the circumstances. By considering the above articulation, think about took after the presumption of the dynamic hazard which is having a greater amount of relationship with created advertise, a similar supposition won't remain constant in the rising economy like India and Sri Lanka. The investigation uncovered that time scale subordinate assessments of precise hazard inserted in various stocks and apparatuses utilized as a part of the examination will offer knowledge to the experts while portfolio arranging.
- Balakrishnan and Rekha Gupta (2014) demonstrated that the greater part of the portfolio betas were not related to the esteem one and furthermore they demonstrated the individual securities beta and portfolio betas are not identified with each other.
- Soumya Guhadab and Sagarika Misra (2011) found that there was confirmation of shakiness of betas particularly in shorter era and the precariousness was decreased when the beta estimation time frame expanded. Notwithstanding that extraordinary betas demonstrated the higher strength than the middle of the road scope of betas.
- Murthy Jogonalapur (2011) found that among the different return interim periods.
- K.V. Aruna Shanta (2010) researched the security of beta over the time in various

Market stages from 2001 to 2009. The investigation evaluated the beta for five sub times of four years each and one bullish market stage with one more bearish market stage. The

dependability was tried with help of time variable relapse and sham variable

relapse. The outcome demonstrated that in a large portion of the cases i.e. 85% of the scrips supported the invalid speculation prompting deduce that strength of beta after some time and market stages was not dismissed by both of econometric techniques. From the examination, there is less ground to infer that beta qualities are not steady after some time and market stages in Sri Lankan Stock Market.

- Kapil and Sakshi (2010) endeavored to investigate the nearness of legitimacy of CAPM hypothesis in Indian securities exchange. Setting the final goal to test relevance CAPM Indian setting the investigation attempted the exploration in BSE 500 by distinguishing 260 organizations and the arrival of the organizations were figured and same return was relapsed with showcase come back to arrive the beta incentive with which affiliation could be found out as far as dangerous and return. The investigation found that higher unsafe was not comparable with exceptional yield demonstrating that the hypothesis CAPM approach was marked down in the Indian setting.

- Similar think about was done by Madhu and Tamimi (2009) explore the legitimacy of CAPM in Indian setting by breaking down the medication business containing 70 organizations from BSE amid the period from 2004 to 2007. The consequence of the investigation uncovered that there was a proof showing that the hypothesis of CAPM approach was relevant in Indian setting.

- MazenDiwani (2010) set forth an investigation regarding feasibility of CAPM approach in developing business sector in which the examination chose India as one of the rising markets and tried the hypothesis in BSE by taking 25 organizations amid the period from November 2004 to October 2008. The investigation found that the topic of materialness of CAPM in Indian market was as yet dynamic.

- Broca (2009) needed to examine the circulation of come back with deference different scrips in Indian setting. The investigation finished an endeavor to investigate the event of return conveyance as typical or non ordinary with the assistance of commonality test. The test

uncovered that arrival circulation had a greater amount of non ordinary qualities came about into serious leptokurtosis slight negative skewness.

- Kumar and Gupta (2009) made an endeavor to explore the example of flightiness in Indian securities exchange and to meet out the reason they tried an example of 31 organizations based on day by day shutting cost exchanged NIFTY from the time of 1995 to 2008 with the traverse of 16 years and they found that the organizations taken for the examination were profoundly unpredictable.
- Singh (2008) analyzed betas of 165 stocks for the period 1991 to 2002 to examine the computational impacts of the interims between information focuses, the day and age over which the beta is ascertained and the measure of portfolio. Impressive varieties were found by techniques utilized for count.
- Shijin and Others (2006) analyzed the hazard return qualities of basic stocks in Indian securities exchange for the period from March 1995 to March 2006 for an example of 72 companies from Bombay Stock Exchange. The aftereffects of Vector Autoregressive Model showed that market chance intermediary had diligent impacts stock returns in Indian market.
- The impact of enhancement was considered by Raj and Rakesh in the year 2007. The examination made an endeavor to discover connection amongst hazard and return. In the examination the accentuation was given to impact of enhancement in alleviating the portfolio chance. The investigation broke down the end cost of 120 scrips from BSE at the traverse of 10 years and the scrip returns were relapsed with showcase come back with help of market record demonstrate and the outcome demonstrated that there was a high and positive the connection between's portfolio return and hazard.
- Banerjee and Sarkar (2006) examined unpredictability of Indian securities exchange by taking every day shutting record estimation of NIFTY from 2001 to 2004 at the traverse of four years. The examination utilized GARCH model to investigate grouping of instability and found that there was bunching unpredictability and further investigation researched the impact of outside institutional ventures on instability by assessing remote inflows into securities exchange finished with the outcome that there was no reasonable confirmation for demonstrating that FII had an effect on unpredictability.

RESEARCH GAP

The greater part of concentrates accentuated the connection amongst hazard and return. Since beta coefficient is the most imperative parameter to assess $E(R)$ under Capital Asset Pricing Model (CAPM), it ends up crucial to appraise the beta co-productive and solidness in Indian setting since Indian Stock Market is risen as Second best market on the planet. Prior examinations addresses the solidness of beta in remote market and more investigations were directed in Indian Market. Consequently the examination makes an endeavor to discover the dependability of the beta through Ordinary Least Square Method and its unwavering quality.

CHAPTER 3

3.RESEARCH DESIGN

Subject:

'A COMPARATIVE STUDY ON RISK and RETURN OF EQUITY STOCKS FOR SELECTED SECTORS' @ **Pattern Effects Labs Private Ltd**

3.1 STATEMENT OF THE PROBLEM

The issue embraced to ponder in the present venture work is to dissect returns and hazard related with various stocks recorded on NSE under Automobile, Banking and IT Sector. For these stocks, expected return and hazard would be considered. The financial specialist is accepted to have the goal of boosting expected return and limiting the hazard. Further, it is expected that speculators would go out on a limb in a circumstance when sufficiently compensated for it. This proposes people would favor most elevated expected return for a given level of hazard. Returns and Risk are ascertained to think about value developments in the stock exchange. It can enhance his odds of accomplishment, in the event that he chooses stock which is doing admirably from numerous years say 10 years. Subsequent to doing this extend one can settle on choices in regards to interest in which organization one can anticipate

3.2 NEED FOR THE STUDY

The cutting edge commercial center of Stock Markets are very much created hazard administration, straightforward guidelines for section and stringent direction, it is faceless. Interests in securities exchange are more dangerous and at same time exceedingly fulfilling in the event that one painstakingly grabs the stocks based on showcase investigation.

3.3 OBJECTIVES OF THE STUDY

- Understand about the different methodologies of interests in value stocks and measure the hazard and returns.

- Analyze the value vacillations in those areas embraced for the examination that are; Automobile, Banking and Information Technology.
- Watch the instability amongst Returns and Risk in the month to month variances in costs.
- Find out which organization is best for financial specialists.
- Evaluate the value developments of the chosen stocks in view of Standard Deviation, Variance, Beta, Alpha Analysis and Correlation relationship.

3.4 SCOPE OF THE STUDY

- Present examination has been attempted to watch the hazard and returns related with few chosen stocks.
- Scope of the examination covers 2 organization's stock from Automobile Sector; 2 organization's stock from IT Sector, 2 organization's stock from Banking Sector. The extent of the examination is limited to just 6 Companies.
- The contemplate covers a period beginning from Jan 2015 to Dec 2017.
- It considers to think about just of those apparatuses like hazard, return, beta, alpha and standard deviation.

3.5 RESEARCH METHODOLOGY

This examination contemplate has been founded on Descriptive and to some degree Exploratory technique. It portrays securities advertise in India and clarifies hazard and returns engaged with value speculation. At last, it finds different options with respect to value venture. The market development for separate month in Index and scrip's has been ascertains weighted normal technique and later considered for figuring purposes.

Strategies For DATA COLLECTION

Essential (Primary) DATA

- Primary information is for the most part sourced from cooperating with the Manager of Pattern impacts labs pvt Ltd.
- Interaction with inside guide helped this venture in illuminating questions related with the investigation and gets a correct course to the undertaking.

Optional (Secondary)DATA

The present information depends on auxiliary information sources:

- Data gathered from diaries, magazines.
- Data gathered from the sites of the organization, monetary sites and Stock Exchange Websites.

3.6 LIMITATIONS OF THE STUDY

- Data gathered in this report are from optional sources as it were.
- This report and information are not pertinent for all parts of the value.
- For investigation of the task just 5 organizations information are considered from NSE and that too of just 3 areas.
- The exactness of the investigation depends on the information introduced in the NSE site.
- The contemplate doesn't consider any inward evaluated reports and data which is out of extent of the examination.

CHAPTER 4

4.DATA ANALYSIS AND INTERPRETATION

HDFC BANK LIMITED



HDFC bank is public limited bank and its sector is Banking and financial Services. It was established in the year august 1996.

Its main branch is in Bombay and its products are credit cards,consumer banking,private saving money, Investment banking and many more.

TABLE SHOWING CALCULATION OF HDFC SCRIP

Table No. 1.1(a)

DATE	CNX NIFTY	HDFC	NIFTY RETURNS	HDFC RETURNS
Jan-15	6089.5	628.5	-	-
Feb-15	6276.95	669.6	3.078249	6.539379
Mar-15	6704.2	748.8	6.80665	11.82796

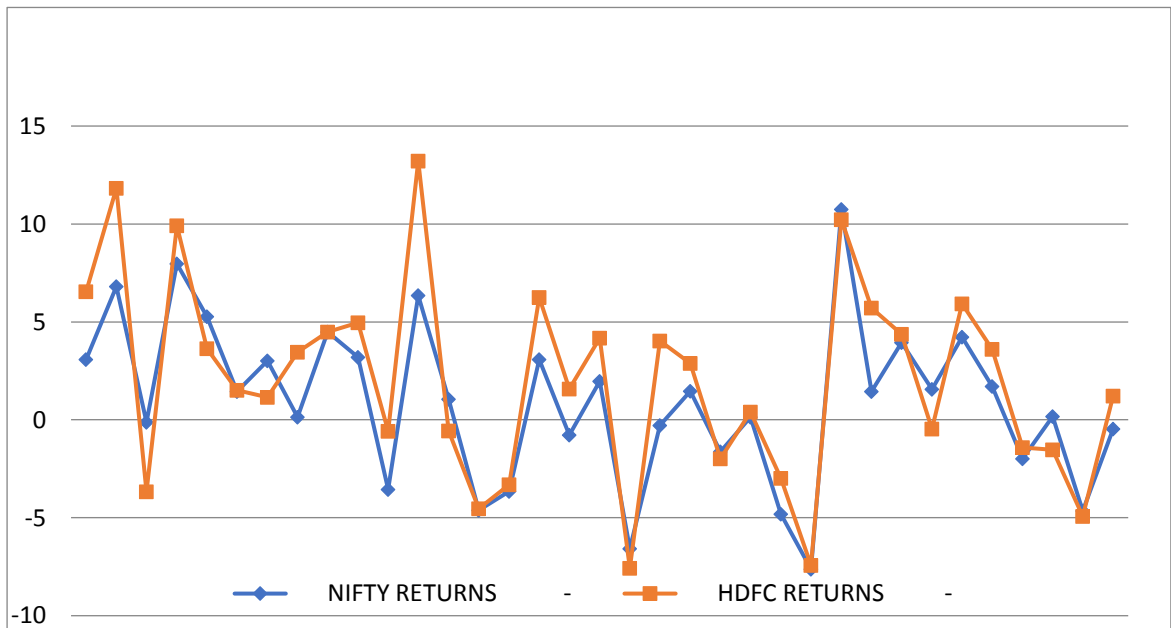
Apr-15 5	6696.4	721.3	-0.11634	-3.67254
May-15	7229.95	792.75	7.967714	9.905726
Jun-15	7611.35	821.55	5.275279	3.632923
Jul-15	7721.3	834	1.444553	1.515428
Aug-15	7954.35	843.55	3.018274	1.145084
Sep-15	7964.8	872.65	0.131375	3.449707
Oct-15	8322.2	911.85	4.487244	4.492064
Nov-15	8588.25	957.15	3.196871	4.967922
Dec-15	8282.7	951.6	-3.55777	-0.57985
Jan-16	8808.9	1077.35	6.353001	13.21459
Feb-16	8901.85	1071.2	1.055183	-0.57085

Mar-16	8491	1022.7	-4.61533	-4.52763
Apr-16	8181.5	988.8	-3.64504	-3.31476
May-16	8433.65	1050.55	3.081953	6.244943
Jun-16	8368.5	1067.15	-0.7725	1.580125
Jul-16	8532.85	1111.65	1.963912	4.169985
Aug-16	7971.3	1027.45	-6.58104	-7.57433
Sep-16	7948.9	1068.8	-0.28101	4.024527
Oct-16	8065.8	1099.6	1.470644	2.881737
Nov-16	7935.25	1077.75	-1.61856	-1.98709
Dec-16	7946.35	1082.15	0.139882	0.408258
Jan-17	7563.55	1049.885	-4.81731	-2.98156

Feb-17	6987.05	971.85	-7.62208	-7.43272
Mar-17	7738.4	1071.15	10.75347	10.21763
Apr-17	7849.8	1132.32	1.439574	5.710685
May-17	8160.1	1181.9	3.952967	4.378621
Jun-17	8287.75	1176.45	1.564319	-0.46112
Jul-17	8638.5	1246.2	4.23215	5.928854
Aug-17	8786.2	1291.2	1.709788	3.610977
Sep-17	8611.15	1272.85	-1.99233	-1.42116
Oct-17	8625.7	1253.3	0.168967	-1.53592
Nov-17	8224.5	1191.6	-4.65122	-4.923
Dec-17	8185.8	1206.2	-0.47055	1.225243

	Nifty	HDFC		Correlation	0.9005
SD	0.1506	0.3247		Covariance	0.8109
Variance	0.0226	0.1054		Beta	1.1147
				Alpha	2.9558

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RETURN OF HDFC BANKLTD.

INTERPRETATION

From the above graph it can be interpreted that the return of Nifty index was very high during the year March 2016 and the HDFC returns was also very high in the same month.

The return of Nifty index was very low in Feb 2016 and the HDFC return was also very low in Feb 2016. Monthly return on yearly basis of Nifty is showing consistency, whereas HDFC return is showing more variability.

Standard dev indicates that risk associated with HDFC scrip is 0.3247 where in the case of Nifty, it is 0.1506. However risk associated in the HDFC scrip is greater than Nifty.

Correlation: The relationship between HDFC and Nifty index showing high positive relationship between them. It means increase in the value of return of nifty index is directly correlated to HDFC index.

Beta value of the scrip showing 1.11 it indicates that 1% changes in the Nifty causes 1.11 times changes in the HDFC scrip. It indicates that individual scrip is more volatile as compare to index bench mark.

Alpha value is 2.9558 it indicates market is in good condition. There is healthy return and investor will gain positive return by investing in this stock.

ICICI BANK LIMITED



ICICI is public limited bank and it was established in the year 1994. Its main branch is in Bombay having 25 other branches across the country. Its products are Insurances, investmentss bankings, science and techonology , research and technology , payment queries and many more.

web site www.icicibank.com

TABLE SHOWING CALCULATION OF ICICI BANK

Table No. 1.2(a)

DATE	CNX NIFTY	ICICI	NIFTY RETURNS	ICICI RETURNS
Jan-15	6089.5	179.58	-	-
Feb-15	6276.95	189.79	3.078249446	5.685488362
Mar-15	6704.2	226.37	6.806649726	19.27393435
Apr-15 5	6696.4	226.07	-0.116344978	-0.132526395
May-15	7229.95	257.83	7.967713996	14.04874596
Jun-15	7611.35	257.85	5.275278529	0.007757049
Jul-15	7721.3	267.5	1.4445532	3.742485941
Aug-15	7954.35	283.05	3.018274125	5.813084112
Sep-15	7964.8	260.65	0.131374657	-7.913796149
Oct-15	8322.2	295.75	4.487243873	13.46633416

Nov-15	8588.25	318.98	3.19687102	7.854606932
Dec-15	8282.7	321	-3.557767881	0.633268543
Jan-16	8808.9	327.91	6.353000833	2.152647975
Feb-16	8901.85	314.68	1.055182826	-4.034643652
Mar-16	8491	286.82	-4.615332768	-8.853438414
Apr-16	8181.5	301.05	-3.64503592	4.96129977
May-16	8433.65	288.41	3.081953187	-4.1986381
Jun-16	8368.5	280	-0.772500637	-2.915987656
Jul-16	8532.85	274.91	1.96391229	-1.817857143
Aug-16	7971.3	252.64	-6.581036817	-8.100833
Sep-16	7948.9	245.77	-0.281008117	-2.719284357

Oct-16	8065.8	251.82	1.470643737	2.461651137
Nov-16	7935.25	249.77	-1.618562325	-0.814073545
Dec-16	7946.35	237.59	0.139882171	-4.876486367
Jan-17	7563.55	209.23	-4.817306059	-11.93652932
Feb-17	6987.05	172.77	-7.622082223	-17.42579936
Mar-17	7738.4	215.14	10.75346534	24.52393355
Apr-17	7849.8	215.41	1.439574072	0.125499675
May-17	8160.1	222.41	3.952966955	3.249617009
Jun-17	8287.75	218.68	1.564319065	-1.677082865
Jul-17	8638.5	239	4.23214986	9.292116334
Aug-17	8786.2	234.55	1.709787579	-1.861924686

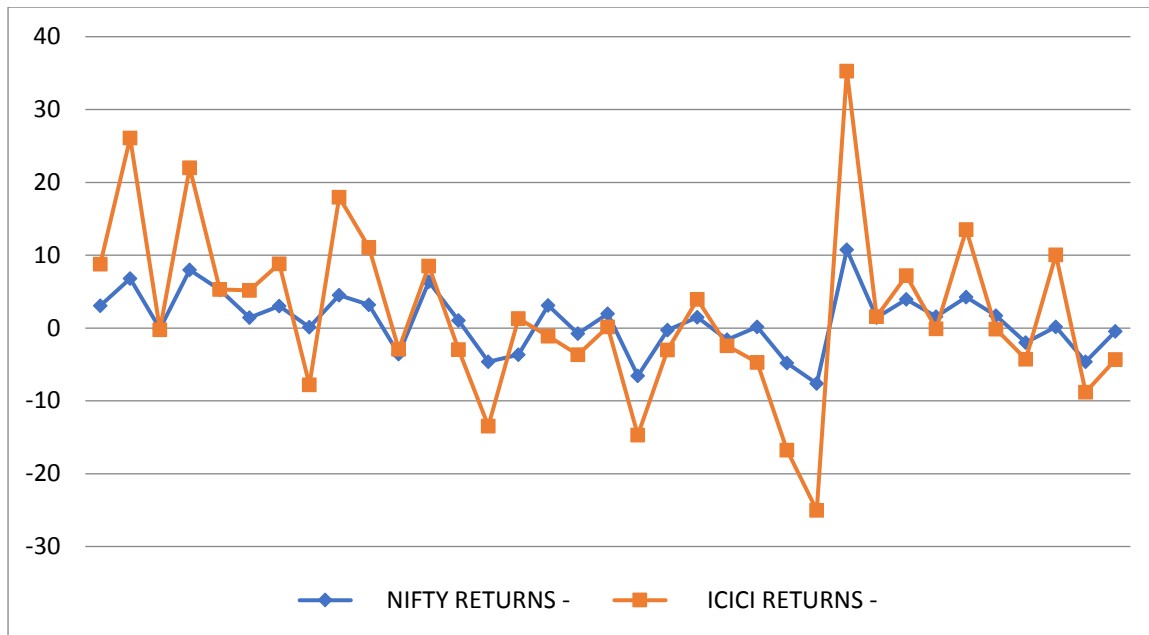
Sep-17	8611.15	229.23	-1.992328879	-2.268173097
Oct-17	8625.7	251.86	0.168966979	9.872180779
Nov-17	8224.5	241.41	-4.651216713	-4.149130469
Dec-17	8185.8	232.09	-0.470545322	-3.860652003

Table No.5.2(b)

	Nifty	ICICI		Correlation	0.7880
SD	0.1506	0.1741		Covariance	0.8109
Variance	0.0226	0.0303		Beta	1.6316
				Alpha	2.5188

GRAPH SHOWING MARKET RETURN AND STOCK RETURN OF ICICI BANK LTD.

Graph No. 1.2



INTERPRETATION

From the above graph it can be interpreted that the return of Nifty index was very high in March 2016 and ICICI Bank returns was also very high in March 2016.

From the above graph it can be interpreted that the return of Nifty index was very low in Feb 2016 and ICICI Bank return were also very low in Feb 2016. Monthly return on yearly basis of Nifty is showing consistency whereas, ICICI Bank showing more variability.

Standard deviation indicates that risk associated with ICICI Bank is 0.1741 where in case of Nifty it is 0.1506. However risk associated in the ICICI Bank is greater than Nifty.

The relationship between ICICI Bank and Nifty index showing high positive relationship between them. It means increase in the value of return of Nifty index is directly correlated to ICICI Bank index.

Beta value of the scrip showing 1.6316%, it indicates that 1% change in the Nifty causes 1.6316% time's changes in the ICICI Bank. It indicates that individual scrip is more volatile as compare to index bench mark.

Alpha value is 2.5188 which indicates market is in good condition. There is healthy return and investor will gain positive return by investing in this stock.

TATA CONSULTANCY SERVICES



It is private limited company and was established in the year 1967. Industry is concerned with the Information technology administrations and Information technology counseling. Its main branch is in Bombay. It was established by the JRD TATA & FC kohl..

Website www.tcsindia.com

TABLE SHOWING CALCULATION OF TCS SCRIPT

Table No. 1.3(a)

DATE	CNX NIFTY	TCS	NIFTY RETURNS	TCS RETURN
Jan-15	6089.5	2241.05	-	-
Feb-15	6276.95	2275.75	3.078249446	1.548381339
Mar-15	6704.2	2133.15	6.806649726	-6.266066132
Apr-15	6696.4	2189.2	-0.116344978	2.627569557
5				
May-15	7229.95	2141.35	7.967713996	-2.185729947

Jun-15	7611.35	2424.4	5.275278529	13.21829687
Jul-15	7721.3	2580.05	1.4445532	6.420145191
Aug-15	7954.35	2522.35	3.018274125	-2.236390768
Sep-15	7964.8	2736.6	0.131374657	8.494063076
Oct-15	8322.2	2607.85	4.487243873	-4.704743112
Nov-15	8588.25	2643	3.19687102	1.347853596
Dec-15	8282.7	2558.25	-3.557767881	-3.206583428
Jan-16	8808.9	2482.05	6.353000833	-2.978598651
Feb-16	8901.85	2675.25	1.055182826	7.783888318
Mar-16	8491	2553.95	-4.615332768	-4.534155686
Apr-16	8181.5	2463.7	-3.64503592	-3.533741851

May-16	8433.65	2610.3	3.081953187	5.950399805
Jun-16	8368.5	2550.95	-0.772500637	-2.273685017
Jul-16	8532.85	2510.75	1.96391229	-1.575883494
Aug-16	7971.3	2564.05	-6.581036817	2.122871652
Sep-16	7948.9	2588.05	-0.281008117	0.936019188
Oct-16	8065.8	2495.2	1.470643737	-3.587643206
Nov-16	7935.25	2364.7	-1.618562325	-5.23004168
Dec-16	7946.35	2436.85	0.139882171	3.051126993
Jan-17	7563.55	2931.3	-4.817306059	20.29053902
Feb-17	6987.05	2176.8	-7.622082223	-25.73943302
Mar-17	7738.4	2520.3	10.75346534	15.7800441

Apr-17	7849.8	2535.5	1.439574072	0.603102805
May-17	8160.1	2569.4	3.952966955	1.337014396
Jun-17	8287.75	2553.1	1.564319065	-0.634389352
Jul-17	8638.5	2619.3	4.23214986	2.592926247
Aug-17	8786.2	2511.3	1.709787579	-4.123239033
Sep-17	8611.15	2430.8	-1.992328879	-3.20551109
Oct-17	8625.7	2391.05	0.168966979	-1.635264111
Nov-17	8224.5	2276.05	-4.651216713	-4.809602476
Dec-17	8185.8	2365.55	-0.470545322	3.932251049

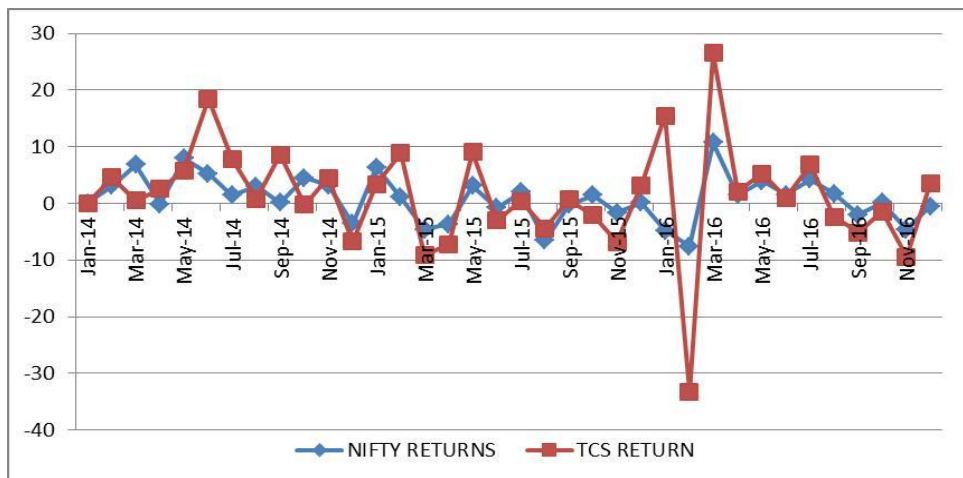
Table No5.3(b)

	Nifty	TCS		Correlation	0.3113
--	-------	-----	--	-------------	--------

SD	0.1506	0.0721	Covariance	0.0969
Variance	0.0226	0.0052	Beta	0.5779
			Alpha	1.632

GRAPH SHOWING MARKET RETURN AND STOCK RETURN OF TCS LTD.

Graph No. 1.3



INTERPRETATION

From the above graph it can be interpreted that the return of Nifty index was very high in March 2016 and the return of TCS is also high in March 2016.

From the above graph it can be interpreted that the return of Nifty index was very low in Feb 2016 and TCS return were also very low in Feb 2016. Monthly return on yearly basis of Nifty is showing consistency whereas, TCS showing more variability

Standard deviation indicates that risk associated with TCS Ltd scrip is 0.0721 where in case of Nifty it is 0.1506. However risk associated in the Nifty is greater than the company.

The relationship between TCS Ltd. and Nifty index showing high positive relationship between them. It means increase in the value of return of Nifty index is directly correlated to TCS Ltd. index.

Beta value of the scrip showing 0.51496% it indicates that 1% changes in the Nifty indicates, causes 0.51496% times change in the TCS Ltd scrip. It indicates that individual scrip is good in market condition as compare to index bench mark.

Alpha value is 0.9551 is positive i.e. There is a healthy return and investor will gain positive return by investing in this stock.

INFOSYS LTD



Infosys is private limited company and it was established in the year 1982 by NARAYANA MURTHYI & NANDANA NEELKAENI. Its main branch is in Banaglore.

Services IT, Business Consulting and Outsourcing Services.

Website www.infosys.coM

TABLE SHOWING CALCULATION OF INFOSYS SCRIPT

Table No.1.4(a)

DATE	CNX NIFTY	INFOSYS	NIFTY RETURN	INFOSYS RETURN
Jan-15	6089.5	925.28		
Feb-15	6276.95	956.22	3.078249446	3.343852672
Mar-15	6704.2	820.7	6.806649726	-14.17247077
Apr-15	6696.4	795.2	-0.116344978	-3.107103692
May-15	7229.95	734.85	7.967713996	-7.589285714
Jun-15	7611.35	813.89	5.275278529	10.75593659
Jul-15	7721.3	841.92	1.4445532	3.443954343
Aug-15	7954.35	899.7	3.018274125	6.862884835
Sep-15	7964.8	936.94	0.131374657	4.139157497

Oct-15	8322.2	1012.82	4.487243873	8.098704293
Nov-15	8588.25	1089.97	3.19687102	7.617345629
Dec-15	8282.7	986.28	-3.557767881	-9.513105865
Jan-16	8808.9	1070.95	6.353000833	8.584783226
Feb-16	8901.85	1148.23	1.055182826	7.216023157
Mar-16	8491	1109.18	-4.615332768	-3.400886582
Apr-16	8181.5	971.13	-3.64503592	-12.44613138
May-16	8433.65	1011.58	3.081953187	4.16525079
Jun-16	8368.5	984.35	-0.772500637	-2.691828625
Jul-16	8532.85	1077.05	1.96391229	9.417382029
Aug-16	7971.3	1094.4	-6.581036817	1.610881575

Sep-16	7948.9	1161.95	-0.281008117	6.172331871
Oct-16	8065.8	1135.45	1.470643737	-2.280648909
Nov-16	7935.25	1087.9	-1.618562325	-4.187766965
Dec-16	7946.35	1105.4	0.139882171	1.608603732
Jan-17	7563.55	1164.9	-4.817306059	5.382666908
Feb-17	6987.05	1084.05	-7.622082223	-6.940509915
Mar-17	7738.4	1218.3	10.75346534	12.38411512
Apr-17	7849.8	1208.1	1.439574072	-0.837232209
May-17	8160.1	1248.65	3.952966955	3.356510223
Jun-17	8287.75	1170.8	1.564319065	-6.234733512
Jul-17	8638.5	1073.85	4.23214986	-8.280662795

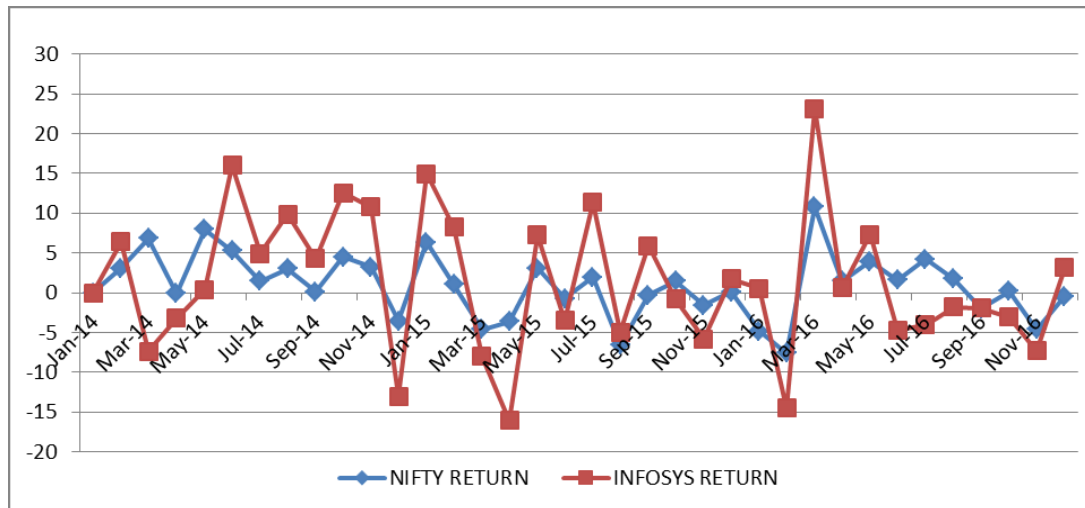
Aug-17	8786.2	1035.85	1.709787579	-3.538669274
Sep-17	8611.15	1036.05	-1.992328879	0.019307815
Oct-17	8625.7	1002.1	0.168966979	-3.276868877
Nov-17	8224.5	975.55	-4.651216713	-2.649436184
Dec-17	8185.8	1010.6	-0.470545322	3.592845062

Table No. 5.4(b)

	Nifty	INFOSY		Correlation	0.3139
SD	0.1506	0.3247		Covariance	0.0985
Variance	0.0226	0.1054		Beta	0.5149
				Alpha	0.9309

GRAPH SHOWING MARKET RETURN AND STOCK RETURN OF INFOSYS LTD

Graph No. 1.4



INTERPRETATION

From the above graph it can be interpreted that the return of Nifty index was very high in March 2016 and Infosys return was also very high in March 2016.

From the above graph it can be interpreted that the return of Nifty index was very low in Feb 2016 and Infosys return was very low in Apr 2015. Monthly return on yearly basis of Nifty is showing consistency whereas, Infosys showing more variability.

Standard deviation indicates that risk associated with Infosys Ltd. scrip is 0.0769 where in case of Nifty is 0.1506. However risk associated in the nifty is greater than Infosys.

The relationship between Infosys Ltd. and Nifty index showing high positive relationship between them. It means increase in the value of return of Nifty index is directly correlated to Infosys Ltd. index.

Beta value of the scrip showing 0.5149%, it indicates that 1% change in the Nifty indicates, causes 0.5149% times changes in the Infosys Ltd scrip. It indicates that individual scrip is good in market condition as compare to index bench mark.

Alpha value is 0.0769 is positive i.e. There is a healthy return and investor will gain positive return by investing in this stock.

TATA MOTORS LIMITED



It is a public limited company and was established in the year 1944. Its main branch is in BOMBAY and it deals with automobile, cars, buses, army parts, navy parts and many more. Now it is the leading company in the field of manufacturing of automobile parts, equipments.

Website www.tatamotors.com

TABLE SHOWING CALCULATION OF TATA MOTORS SCRIPT

Table No. 1.5(a)

DATE	CNX NIFTY	TATA MOTORS	NIFTY RETURNS	TATA RETURNS
Jan-15	6089.5	345.84	-	-
Feb-15	6276.95	412.53	3.078249446	19.28348369
Mar-15	6704.2	394.42	6.806649726	-4.389983759
Apr-15	6696.4	410.35	-0.116344978	4.038841844

5				
May-15	7229.95	410.65	7.967713996	0.073108322
Jun-15	7611.35	426.73	5.275278529	3.915743334
Jul-15	7721.3	442.01	1.4445532	3.580718487
Aug-15	7954.35	519.48	3.018274125	17.52675279
Sep-15	7964.8	496.83	0.131374657	-4.36012936
Oct-15	8322.2	530.17	4.487243873	6.710544854
Nov-15	8588.25	527.84	3.19687102	-0.439481676
Dec-15	8282.7	490.3	-3.557767881	-7.112003637
Jan-16	8808.9	578.95	6.353000833	18.08076688
Feb-16	8901.85	587.06	1.055182826	1.400811814
Mar-16	8491	544.37	-4.615332768	-7.271829115

Apr-16	8181.5	508.25	-3.64503592	-6.635192975
May-16	8433.65	481.65	3.081953187	-5.23364486
Jun-16	8368.5	434.15	-0.772500637	-9.861932939
Jul-16	8532.85	383.85	1.96391229	-11.58585742
Aug-16	7971.3	304.15	-6.581036817	-20.763319
Sep-16	7948.9	298.6	-0.281008117	-1.824757521
Oct-16	8065.8	384.95	1.470643737	28.91828533
Nov-16	7935.25	423.25	-1.618562325	9.949344071
Dec-16	7946.35	391.3	0.139882171	-7.548730065
Jan-17	7563.55	336.9	-4.817306059	-13.90237669
Feb-17	6987.05	299.7	-7.622082223	-11.04185218

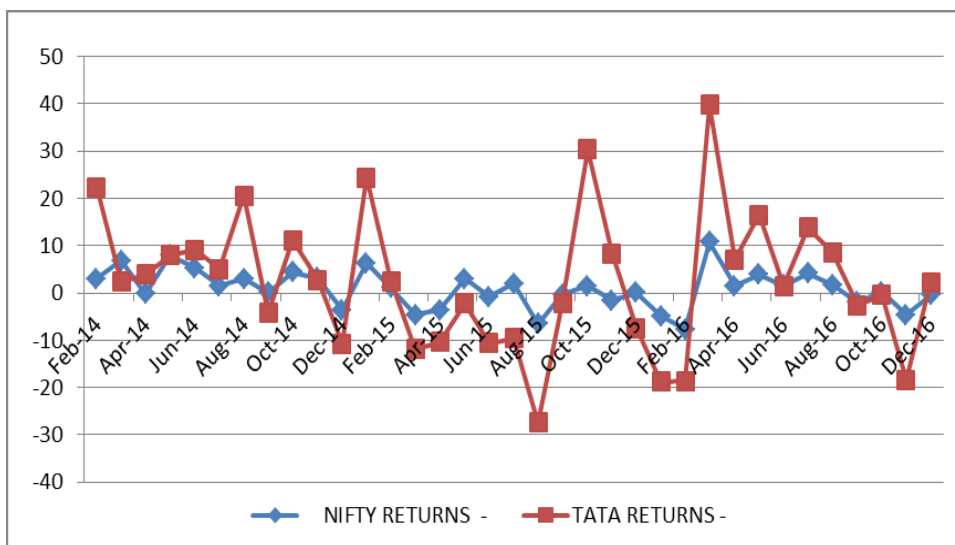
Mar-17	7738.4	386.6	10.75346534	28.99566233
Apr-17	7849.8	408.35	1.439574072	5.625969995
May-17	8160.1	459.65	3.952966955	12.56275254
Jun-17	8287.75	459.25	1.564319065	-0.087022735
Jul-17	8638.5	503.2	4.23214986	9.569951007
Aug-17	8786.2	537.7	1.709787579	6.856120827
Sep-17	8611.15	534.85	-1.992328879	-0.530035336
Oct-17	8625.7	531.95	0.168966979	-0.542208096
Nov-17	8224.5	459.3	-4.651216713	-13.65729862
Dec-17	8185.8	472	-0.470545322	2.765077292

Table No.5.6(c)

	Nifty	TATA MOTORS		Correlation	0.6513
SD	0.1506	0.2456		Covariance	0.4242
Variance	0.0226	0.0603		Beta	1.8387
				Alpha	3.1363

GRAPH SHOWING MARKET RETURN AND STOCK RETURN OF TATA MOTORS LTD.

Graph No. 1.6



INTERPRETATION

From the above graph it can be interpreted that the return of Nifty index was very high in March 2016 and Tata Motors Ltd. return was also very high in March 2016.

From the above graph it can be interpreted that the return of Nifty index was very low in Feb 2016 and Tata Motors Ltd return was also very low in Sep 2015. Monthly return on yearly basis of Nifty is showing consistency whereas, Tata Motors Ltd. showing more variability.

Standard deviation indicates that risk associated with Tata Motors Ltd scrip is 0.2456 where in case of Nifty it is 0.1506. However risk associated in the Nifty is greater than Tata Motors Ltd.

The relationship between Tata Motors Ltd. and Nifty index showing positive relationship between them. It means increase in the value of return of Nifty index is directly correlated to Mahindra and Mahindra Ltd index.

MAHINDRA & MAHINDRA LIMITED



Type	Private
Sector	Automotive
Establish:	1944; (Ludhiana,)
Products	Automobiles, Commercial Vehicles, Two wheelers
Subsidiaries	Mahindra three Wheeler ltd, Peugeot Motorcycle.
Website	www.mahindra.com

TABLE SHOWING CALCULATION OF MAHINDRA AND MAHINDRA SCRIPT

Table No.1.6(a)

DATE	CNX NIFTY	M & M	NIFTY RETURN	M&M RETURNS
Jan-15	6089.5	890.2	-	-
Feb-15	6276.95	974.5	3.078249446	9.469782071
Mar-15	6704.2	980.7	6.806649726	0.636223704
Apr-15	6696.4	1074.2	-0.116344978	9.534006322
May-15	7229.95	1235.5	7.967713996	15.01582573
Jun-15	7611.35	1147.2	5.275278529	-7.146904087
Jul-15	7721.3	1201.65	1.4445532	4.746338912
Aug-15	7954.35	1407.2	3.018274125	17.1056464
Sep-15	7964.8	1360.8	0.131374657	-3.297328027

Oct-15	8322.2	1306.2	4.487243873	-4.012345679
Nov-15	8588.25	1323.75	3.19687102	1.343592099
Dec-15	8282.7	1234.45	-3.557767881	-6.74598678
Jan-16	8808.9	1265.1	6.353000833	2.482887116
Feb-16	8901.85	1291.95	1.055182826	2.122361869
Mar-16	8491	1187.8	-4.615332768	-8.061457487
Apr-16	8181.5	1145	-3.64503592	-3.603300219
May-16	8433.65	1258.1	3.081953187	9.877729258
Jun-16	8368.5	1282.35	-0.772500637	1.927509737
Jul-16	8532.85	1363.6	1.96391229	6.336023706
Aug-16	7971.3	1220.9	-6.581036817	-10.46494573

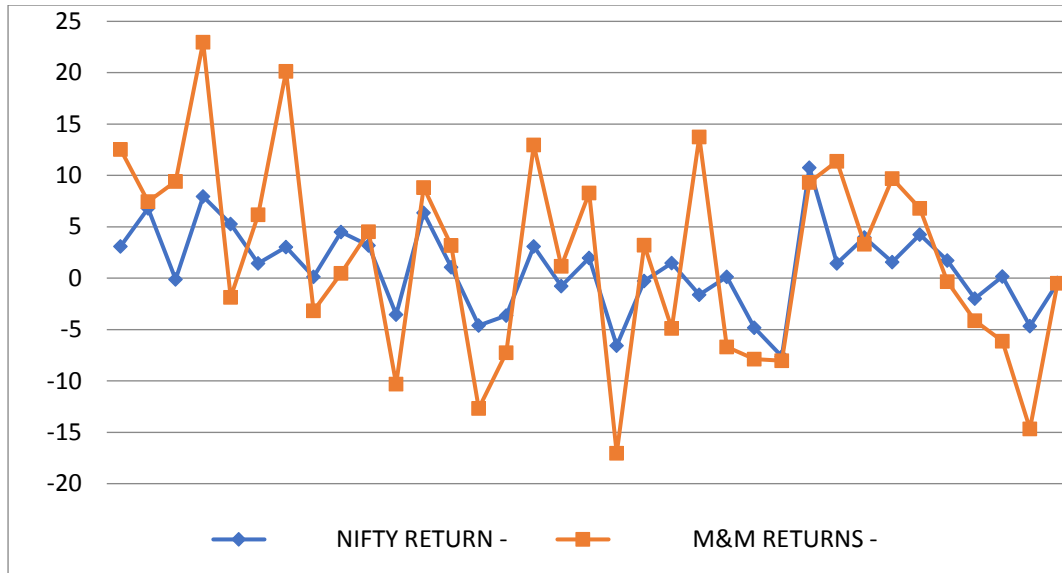
Sep-16	7948.9	1263.8	-0.281008117	3.513801294
Oct-16	8065.8	1183.6	1.470643737	-6.345940813
Nov-16	7935.25	1365.5	-1.618562325	15.36836769
Dec-16	7946.35	1272.35	0.139882171	-6.821677041
Jan-17	7563.55	1233.25	-4.817306059	-3.073053798
Feb-17	6987.05	1228.1	-7.622082223	-0.417595783
Mar-17	7738.4	1210.7	10.75346534	-1.416822734
Apr-17	7849.8	1330.95	1.439574072	9.932270587
May-17	8160.1	1322.3	3.952966955	-0.649911717
Jun-17	8287.75	1429.95	1.564319065	8.141117749
Jul-17	8638.5	1466.75	4.23214986	2.573516557

Aug-17	8786.2	1436.6	1.709787579	-2.055565025
Sep-17	8611.15	1405.7	-1.992328879	-2.150911875
Oct-17	8625.7	1317	0.168966979	-6.310023476
Nov-17	8224.5	1185.1	-4.651216713	-10.01518603
Dec-17	8185.8	1184.7	-0.470545322	-0.033752426

	Nifty	M&M		Correlation	0.3674
SD	0.1506	0.1736		Covariance	0.1349
Variance	0.0226	0.0301		Beta	0.6537
				Alpha	1.632

GRAPH SHOWING MARKET RETURN AND STOCK RETURN OF MAHINDRA AND MAHINDRA LTD.

Graph No. 1.6



INTERPRETATION

From the above graph it can be interpreted that the return of Nifty index was very high in March 2016 and Mahindra and Mahindra Ltd. return was very high in May 2014.

From the above graph it can be interpreted that the return of Nifty index was very low in Feb 2016 and Mahindra and Mahindra Ltd return was very low in Sep 2015. Monthly return on yearly basis of Nifty is showing consistency whereas, Mahindra and Mahindra Ltd. showing more variability.

Standard deviation indicates that risk associated with Mahindra and Mahindra Ltd. scrip is 0.1736 where in case of Nifty it is 0.1506. However risk associated in the Mahindra and Mahindra Ltd. scrip is greater than Nifty.

The relationship between Mahindra and Mahindra Ltd. and Nifty index showing high positive relationship between them. It means increase in the value of return of Nifty index is directly correlated to Mahindra and Mahindra Ltd. index.

Beta value of the scrip showing 0.6737% it indicates that 1% changes in the Nifty index causes 0.6737% times changes in the Mahindra and Mahindra Ltd. scrip. It indicates that individual scrip is less volatile as compare to index bench mark.

Alpha value is 1.632 is positive i.e. There is a healthy return and investor will gain positive return by investing in this stock.

TABLE SHOWING COMBINATION OF THE INVESTING PATTERN OF EACH SECTOR INDICATING DIFFERENT CRITERIA

Table No. 1.7

SECTOR	IT		AUTOMOBILE	BANKING		
	INFOSYS	TCS	M&M	TATA	HDFC	ICICI
RETURNS	-	-	-	28.91	-	-
BETA VALUE	0.5149	-	-	-	-	-
ALPHA VALUE	-	-	-	3.1363	-	-
SD	-	0.0721	-	-	-	-

This table gives a clear picture of the investment pattern provided to the investor where they can invest meticulously before taking any investment decision. The above table shows that

Tata Motor company's stock are advised to the investor who make a wise combination while choosing a stock which gives high returns, no matter how ever the market indices reacts.

From the beta value we could see that the beta value for Infosys have been low indicating lower volatility when compared to the other stocks i.e. investment are suggested to analyses such stock which could result in low volatility giving minimal amount of risk at minimum return.

The Alpha value indicates the performance of the stock in a positive way in the market when we compare such stock which give positive alpha value will always perform in the market such stock would result in strength of the position being positive when compared to other stock with the analysis performed, it was seen that in the Automobile sector the Tata Motor fetches higher alpha value when compared to other sectors stocks. Hence investors are suggested to invest in such stocks which always ensure the positive and higher alpha value.

Standard deviation is the measure to assure risk appetite of stock being performed in the market. Higher the SD, Bigger is the risk measure, lower standard deviation lower is the risk measure. In the analysis undertaken it was found that IT sector, TCS stock has resulted a lower standard deviation. This implies that such stock can ensure any investor to decide and make wise decision in matters of stock selection with having lower standard deviation.

Over all the combination of investment pattern conducted in the above table determines that this investor should go for selecting stock investments by carefully accessing the table constructed above. From this analysis investment returns were higher in blue chips company and beta value less in blue chip company.

CHAPTER5

5. Discoveries, SUGGESTIONS AND CONCLUSIONS

5.1 FINDINGS

Keeping money SECTOR

1. Among the two scrip's in Banking segment both the organizations having positive alpha esteem. HDFC Bank is having most elevated alpha esteem i.e. 2.9558 when contrasted and the ICICI Bank i.e. 2.5188.
2. There are two organizations for which beta esteem is certain i.e. HDFC and ICICI Bank Ltd. ICICI Bank beta esteem i.e. 1.1147 is more than the HDFC Bank's beta esteem i.e. 1.6316 it is profoundly unpredictable in nature.
3. Among the two organizations ICICI Bank having exclusive expectation Deviation i.e. 0.1741 it demonstrates that stock cost is more cost fluctuating as contrast with HDFC Bank i.e. 0.3247
4. By contrasting the saving money part stocks chose for consider both the scrip's are having positive relationship esteem, HDFC (0.9005) and ICICI Bank (0.7880).

Data TECHNOLOGY

1. Both the IT Companies i.e. TCS and Infosys are having positive Alpha qualities, TCS with 1.632 and Infosys with 9309.
2. Beta estimation of TCS is 0.5779 though Infosys' beta esteem is 0.5149 and both are certain.
3. Standard Deviation of Infosys is high when contrasted with TCS i.e. $0.3247 > 0.0721$ which demonstrates that individual scrip is great in economic situation as contrast with list seat stamp.
4. Both the organizations are decidedly corresponded i.e. TCS (0.3113) and Infosys (0.3139).

Vehicle SECTOR

1. Both the organizations are having positive Alpha esteem i.e. Mahindra and Mahindra with 1.632 and TATA Motors with 3.1363. Goodbye Motors having most astounding alpha incentive than M&M.
2. Both the organizations are having positive beta esteem demonstrating the development of the stocks a similar way. Beta estimation of Mahindra and Mahindra Ltd. also, TATA Motors are 0.6537 and 1.8387 separately.
3. The Standard deviation of Mahindra and Mahindra Ltd. is low i.e. 0.1736 as contrasted and the Tata Motors i.e. 0.6513. Both the scrip's are having moderate hazard.
4. Both the organizations have positive connection with list esteem showing that the development of the stocks and record return have positive straight relationship.

5.2 SUGGESTIONS

At the center, seeing how to contribute is about returns and hazard. Return is estimated by how much one's cash has become over the venture time frame. Returns are not known ahead of time. Rather we can just make an informed figure concerning what sort of come back to anticipate. A specialized investigation encourages us in deciding the conduct of stocks over chosen parameters amid the time of study. In view of the examination and discoveries following are the proposals.

Managing an account SECTOR

1. As Alpha esteem is +ve for the majority of the stocks.
2. The outcome demonstrates that considering the hazard and return factor. The HDFC is performing admirably, so the speculator can put resources into HDFC Bank.

Vehicle SECTOR

1. According to the come about, by contrasting the whole Automobile part, return factor Tata Motors is doing great and hazard is likewise low. Mahindra and Mahindra Ltd. is performing great so the financial specialists can put resources into this organization.

Data TECHNOLOGY SECTOR

1. According to the arrival and hazard factor Infosys Technology Ltd. is performing great, so speculator can put resources into this organization.

Contrasting all the three divisions, by thinking about hazard and return; Infosys Ltd, HDFC Bank Ltd and Tata Motors are doing great. So the financial specialist can put resources into these organizations with the goal that profits are additionally great and furthermore generally safe factor.

5.3 CONCLUSION

Risk and return analysis is very essential, because it helps to calculate future predictable returns and risk of the stock.

Getting the scenery of hazard is not sufficient if the person is good in stating them in quantitative terms.

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ACHARYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MBA

PROJECT WEEKLY REPORT (16MBAPR407)

Name of the Student: Pavan Madhukar Kalkoti

Internal Guide: Om Prakash











USN No: 1AZ16MBA47

Specialization: Finance & Marketing


Title of the Project: A Study on Risk and Return analysis of Equity stock

Company Name: Pattern Effects Labs Pvt Ltd.

Week	Work Undertaken	External Guide Signature	Internal Guide Signature
15-1-2018 to 20-1-2018	Introduction about Pattern effects labs pvt Ltd and its operation		
22-1-2018 to 27-1-2018	Learning about the different operation and services by Pattern effects labs pvt Ltd		
29-1-2018 to 3-2-2018	Orientation and gathering information about the growth of the company		
5-2-2018 to 10-2-2018	Analysis of the market position of the company		
12-2-2018 to 17-2-2018	Research problem identification		
19-2-2018	Preparation of the		

19-2-2018 to 24-2-2018	Preparation of the research instrument for data collection		
26-2-2018 to 3-3-2018	Theoretical background of the study		
5-3-2018 to 10-3-2018	Data collection and analysis		
12-3-2018 to 17-3-2018	Interpretation of the data gathered during the survey		
19-3-2018 to 24-3-2018	Final report preparation and submission		




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