

A COMPARATIVE STUDY ON COMPANY'S PERFORMANCE AND STOCK PRICE MOVEMENTS

Team Members:

71762133031 – Manoraj R

71762133038 – Sanjay V V

71762133042 – Sneha M

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INTRODUCTION:

Between 2020 and 2022, the Covid-19 pandemic had a profound impact on economies and industries worldwide. Among the sectors significantly affected, the Information Technology (IT) industry emerged as a crucial driver of global digital transformation. As companies in various sectors enter the recovery stage, it becomes imperative to analyze the performance of IT companies and understand their resilience in the face of adversity.

This research study focuses on three prominent companies in the IT sector: HCL Technologies, Tata Consultancy Services (TCS), and Larsen & Toubro (L&T). These companies have been selected for their notable presence and influence in the industry. The objective is to examine their stock price movements during the recovery stage, specifically in response to various announcements, management changes, and other factors.

By delving into the individual performance of each enterprise and making comparative analyses, this study aims to derive insights into their respective recoveries between 2020 and 2022. Understanding how these companies have adapted and thrived amidst the challenges presented by the pandemic can provide valuable lessons for other businesses and investors in the IT sector.

Overall, this research study strives to provide a comprehensive analysis of HCL Technologies, TCS, and L&T in terms of their performance during the recovery stage between 2020 and 2022, offering insights that can contribute to a deeper understanding of the IT sector's resilience and potential for growth in a post-pandemic landscape.

ABSTRACT:

This research study focuses on analyzing the recovery stage of three leading Information Technology (IT) companies, namely HCL Technologies, Tata Consultancy Services (TCS), and Larsen & Toubro (L&T), between 2020 and 2022. By examining the stock price movements of these companies in response to various announcements, management changes, and other factors, the study aims to determine their individual and comparative performances. Insights derived from this analysis can provide valuable lessons for other businesses and investors in the IT sector, shedding light on strategies employed, adaptability to emerging opportunities, and effectiveness in addressing customer demands during the post-pandemic era. Additionally, the study aims to gauge investor sentiment and market perception regarding these enterprises based on their stock price movements.

COMPANYS' OVERVIEW:

HCL:

All amounts are expressed in crores (₹)

	Note No.	As at	
		31 March 2022	31 March 2021
II EQUITY			
(a) Equity share capital	3.12	543	543
(b) Other equity		61,371	59,370
Equity attributable to shareholders of the Company		61,914	59,913
Non-controlling interest		92	169
TOTAL EQUITY		62,006	60,082

The **EQUITY** share capital remained the same at 543 for both years. This indicates that there were no additional issuances or repurchases of equity shares during this period. HCL's other equity increased from 59,370 as of 31 March 2021 to 61,371 as of 31 March 2022. This suggests that the company experienced a positive impact on its equity from sources other than share capital. Other equity components may include retained earnings, reserves, and other

comprehensive income. The total equity of HCL increased from 60,082 as of 31 March 2021 to 62,006 as of 31 March 2022. This overall growth in equity suggests a positive performance and financial strength of the company during the specified period.

	Note No.	As at	
		31 March 2022	31 March 2021
III LIABILITIES			
(1) Non-current liabilities			
(a) Financial liabilities			
(i) Borrowings	3.13	3,923	3,828
(ii) Lease liabilities	3.28	1,659	1,903
(iii) Others	3.15	452	973
(b) Contract liabilities		658	516
(c) Provisions	3.16	1,415	1,333
(d) Deferred tax liabilities (net)	3.25	112	147
(e) Other non-current liabilities	3.17	33	29
Total non-current liabilities		8,252	8,729

HCL's **non-current borrowings** increased from 3,828 as of 31 March 2021 to 3,923 as of 31 March 2022. This indicates that the company took on additional long-term debt during this period. **Non-current lease** liabilities decreased from 1,903 to 1,659, since long-term lease obligations are reduced. **Non-current contract** liabilities increased from 516 to 658, this typically represent advance payments received from customers. **Non-current provisions** increased from 1,333 to 1,415 and **non-current deferred tax** liabilities decreased from 147 to 112. Overall, HCL's **non-current liabilities** exhibited a mixed trend with increases in borrowings, contract liabilities, provisions, and other non-current liabilities, while showing decreases in lease liabilities, deferred tax liabilities, and the category of Others.

	Note No.	As at	
		31 March 2022	31 March 2021
III LIABILITIES			
(2) Current liabilities			
(a) Financial liabilities			
(i) Borrowings	3.13	62	79
(ii) Lease liabilities	3.28	699	691
(iii) Trade payables			
Billed	3.14	2,297	1,726
Unbilled and accruals	3.14	3,981	3,731
(iv) Others	3.15	4,796	4,611
(b) Contract liabilities		3,380	3,078
(c) Other current liabilities	3.18	1,267	1,221
(d) Provisions	3.16	955	963
(e) Current tax liabilities (net)		1,338	1,283
Total current liabilities		18,775	17,383

There is a reduction in **short-term debt** obligations from 79 to 62 and a slight increase in **short-term lease** obligations from 691 to 699. **Trade payables**, including billed and unbilled/accruals, increased from 1,726 to 2,297, which indicates an increase in amounts owed to suppliers for goods or services received. **Contract, current tax, and other current liabilities** has increased and provisions for current liabilities slightly decreased from 963 to 955. These changes reflect the company's short-term financial obligations and commitments.

	Note No.	As at	
		31 March 2022	31 March 2021
TOTAL EQUITY AND LIABILITIES		89,033	86,194

HCL's **total equity and liabilities** expanded from 86,194 to 89,033. This indicates the growth in both the company's equity and its financial obligations. The increase in total equity and liabilities reflects the overall financial position and obligations of the company.

		Note No.	As at	
			31 March 2022	31 March 2021
I	ASSETS			
	(1) Non-current assets			
	(a) Property, plant and equipment	3.1	5,612	5,642
	(b) Capital work in progress		129	312
	(c) Right-of-use assets	3.28	2,305	2,410
	(d) Goodwill	3.2	17,417	17,192
	(e) Other intangible assets	3.3	9,743	11,901
	(f) Investments accounted for using the equity method	3.4(a)	9	-
	(g) Financial assets			
	(i) Investments	3.4(b)	103	89
	(ii) Trade receivables - unbilled	3.5(a)	1,072	1,110
	(iii) Loans	3.6	200	-
	(iv) Others	3.7	1,220	1,459
	(h) Deferred tax assets (net)	3.25	1,176	1,181
	(i) Other non-current assets	3.9	2,006	1,847
	Total non-current assets		40,992	43,143

HCL's **property, plant, and equipment** decreased slightly from 5,642 to 5,612. This indicates a marginal decline in the value of fixed assets and the decrease could be attributed to factors such as depreciation, disposals, or impairments. Property, plant and equipment under construction and cost of assets not ready for use at the year-end are disclosed as capital work-in-progress. Depreciation on property, plant and equipment is provided on the straight-line method over their estimated useful lives, as determined by the management. Depreciation is charged on a pro-rata basis for assets purchased/sold during the year. **Intangible assets** acquired separately are measured on initial recognition at cost.

Right-of-use assets, which typically represent leased assets, decreased from 2,410 to 2,305 and **capital work in progress** decreased from 312 to 129. **Goodwill** is tested annually on March 31, for impairment, or sooner whenever there is an indication that goodwill may be impaired. Goodwill increased from 17,192 to 17,417 and the increase suggests that HCL acquired additional companies or recognized an increase in the value of goodwill associated with existing acquisitions. All **financial assets** are recognized initially at fair value. Purchase and sale of financial assets are accounted for at trade date.

Investments increased from 89 to 103 in 2022. The **trade receivables - unbilled** decreased slightly from 1,110 to 1,072. **Loans** were not reported in 2021 but had a value of 200 crores in 2022. The value of **other financial assets** decreased from 1,459 to 1,220.

The **deferred tax assets (net)** slightly decreased from 1,181 to 1,176 in 2022. The value of **other non-current assets** increased from 1,847 to 2,006 in 2022.

Overall, HCL's **total non-current assets** decreased from \$43,143 million in 2021 to \$40,992 million in 2022. The decrease was primarily driven by a reduction in capital work in progress, right-of-use assets, and other intangible assets. However, there were increases in goodwill, investments, and other non-current assets.

	Note No.	As at	
		31 March 2022	31 March 2021
I ASSETS			
(2) Current assets			
(a) Inventories	3.8	161	94
(b) Financial assets			
(i) Investments	3.4(b)	6,239	6,773
(ii) Trade receivables			
Billed	3.5(b)	15,476	13,663
Unbilled	3.5(b)	5,195	3,862
(iii) Cash and cash equivalents	3.10(a)	10,510	6,521
(iv) Other bank balances	3.10(b)	2,126	2,367
(v) Loans	3.6	3,008	4,841
(vi) Others	3.7	1,520	2,027
(c) Current tax assets (net)		234	131
(d) Other current assets	3.11	3,572	2,772
Total current assets		48,041	43,051

HCL had a higher value of **inventories** at the end of the 2022 fiscal year, increased from 94 to 161. Here, stock-in-trade, stores, and spares are valued at the lower of the cost or net realizable value.

The **investments** decreased from 6,773 in 2021 to 6,239 in 2022. Both billed and unbilled trade receivables increased from 2021 to 2022. This indicates that HCL had higher amounts due from customers for both billed and unbilled services during the 2022 fiscal year.

HCL had higher liquidity in the form of **cash and cash equivalents** at the end of the 2022, increased significantly from 6,521 to 10,510. This comprise cash in banks and short-term deposits and investments with an original maturity of three months or less, which are subject to an insignificant risk of changes in value.

The **other bank balances** decreased slightly from 2,367 to 2,12. The **loans** decreased from 4,841 to 3,008 and the value of **other financial assets** decreased from 2,027 to 1,520. Then, the value of **other current assets** increased from 2,772 to 3,572.

Overall, HCL's **total current assets** increased from \$43,051 million in 2021 to \$48,041 million in 2022. This indicates that HCL had a higher value of current assets at the end of the 2022 fiscal year. The increase in inventories, trade receivables, cash and cash equivalents, current tax assets, and other current assets contributed to this growth. However, there were reductions in financial assets (investments, loans, and other bank balances) and other financial assets.

		Note No.	As at	
			31 March 2022	31 March 2021
I	ASSETS			
	TOTAL ASSETS		89,033	86,194

HCL's **Total Assets** increased from 86,194 in 2021 to 89,033 in 2022. This indicates that HCL experienced growth in its overall asset base during the 2022 fiscal year. The increase in total assets can be attributed to both non-current assets and current assets, with changes observed in various asset categories across the board.

TCS:

All amounts are expressed in crores (₹)

	Note	As at March 31, 2022	As at March 31, 2021
EQUITY AND LIABILITIES			
Equity			
Share capital	8(m)	366	370
Other equity	11	88,773	86,063
Equity attributable to shareholders of the Company		89,139	86,433
Non-controlling interests		707	675
Total equity		89,846	87,108

TCS's **share capital** decreased slightly from 370 to 366 and this decrease is due to factor of share buybacks. TCS generated additional retained earnings and issued new shares which resulted in growth of **other equity** from 86,063 to 88,773. Non-controlling interests represent the equity portion attributed to minority shareholders who do not have a controlling interest in TCS and it has increased from 675 to 707. TCS's total equity increased from 87,108 to 89,846 in 2022. This overall growth in total equity indicates an increase in the net worth of the company.

In summary, TCS demonstrated positive developments in its equity position. These changes signify growth and an improved financial standing for the company.

	Note	As at March 31, 2022	As at March 31, 2021
Liabilities			
Non-current liabilities			
Financial liabilities			
Lease liabilities		6,368	6,503
Other financial liabilities	8(h)	572	280
Employee benefit obligations	14	677	749
Deferred tax liabilities (net)	17	590	767
Unearned and deferred revenue		1,110	1,197
Total non-current liabilities		9,317	9,496

From the given data, we observe a slight decrease in TCS's total non-current liabilities from 9,496 to 9,317. This reduction indicates that TCS has managed to decrease its long-term obligations over the given period.

The main contributing factors to this decrease are the reduction in lease liabilities and **deferred tax liabilities (net)**. It is positive to see a decrease in lease liabilities, as it implies that TCS have renegotiated and paid off some of its leases, leading to a lower long-term financial burden. The decline in **deferred tax liabilities** suggests that TCS have utilized tax credits, resulting in a reduced long-term tax obligation.

On the other hand, **employee benefit obligations** and **unearned and deferred revenue** experienced slight decreases. While these decreases are relatively small, they indicate changes in TCS's workforce or revenue recognition practices.

Overall, the decrease in non-current liabilities is a positive indicator for TCS, as it suggests a potential improvement in the company's financial position and its ability to manage long-term obligations. However, it's important to consider other financial metrics and factors affecting TCS's overall financial health to gain a comprehensive understanding of the company's liability management and financial performance.

	Note	As at March 31, 2022	As at March 31, 2021
Liabilities			
Current liabilities			
Financial liabilities			
Lease liabilities		1,450	1,292
Trade payables	8(g)	8,045	7,860
Other financial liabilities	8(h)	7,687	6,150
Unearned and deferred revenue		3,635	3,650
Other liabilities	10(f)	8,392	4,068
Provisions	10(g)	1,411	1,394
Employee benefit obligations	14	3,810	3,498
Income tax liabilities (net)		7,921	6,243
Total current liabilities		42,351	34,155

TCS had **lease liabilities** of 1,450 in 2022 compared to 1,292 in 2021 and the amounts owed to suppliers (**payables**) were increased to 8,045 in 2022 from 7,860 in 2021. **Other financial liabilities** increased from 6,150 to 7,687 in 2022.

TCS reported **unearned and deferred revenue** of 3,635 in 2022, slightly lower than the 3,650 reported in 2021 and had **other liabilities** of 8,392 in 2022 compared to 4,068 in 2021.

Provisions has increased from 1,394 to 1,411 in 2022. TCS had **employee benefit** obligations of 3,810 in 2022 and 3,498 in 2021. **Income tax liabilities** had an increment of 1,498 i.e., from 6,243 in 2021 to 7,921 in 2022 compared.

In summary, TCS's **current liabilities** increased from 34,155 in 2021 to 42,351 in 2022. The increase in various categories indicates higher financial obligations and potential liquidity demands on the company.

Note	As at March 31, 2022	As at March 31, 2021
TOTAL EQUITY AND LIABILITIES	1,41,514	1,30,759

Overall, the increase in **total equity** indicates growth in the company's net assets, while the increase in total liabilities suggests additional financial obligations and potential claims on the company's resources. It's important to note that a comprehensive analysis of the company's financial health would also consider other factors such as assets, cash flow, profitability, and long-term liabilities to obtain a complete understanding of TCS's financial position.

Note	As at March 31, 2022	As at March 31, 2021
ASSETS		
Non-current assets		
Property, plant and equipment	10(a) 10,774	11,110
Capital work-in-progress	10(a) 1,205	926
Right-of-use assets	9 7,636	7,633
Goodwill	10(b) 1,787	1,798
Other intangible assets	10(c) 1,101	480
Financial assets		
Investments	8(a) 223	213
Trade receivables		
Billed	8(b) 145	55
Unbilled	55	273
Loans	8(e) 311	29
Other financial assets	8(f) 2,253	1,573
Income tax assets (net)	1,983	1,845
Deferred tax assets (net)	17 3,708	3,931
Other assets	10(d) 2,023	1,613
Total non-current assets	33,204	31,479

TCS reported **property, plant, and equipment** of 10,774 in 2022, slightly lower than the 11,110 reported in 2021. They had **capital work-in-progress** of 1,205 in 2022 compared to 926 in 2021.

TCS has **right-of-use assets** of 7,636 in 2022, slightly higher than the 7,633 reported in 2021.

Goodwill reflects the company's reputation, customer base, and other intangible factors and it has decreased from 1798 to 1787 in 2022.

TCS reported **other intangible assets** of 1,101 in 2022, compared to 480 in 2021 and had various **financial assets**, including investments, trade receivables (billed and unbilled), loans, other financial assets, income tax assets (net), and deferred tax assets (net). These assets represent the company's financial holdings, receivables, and tax-related assets. Other assets increased to 2,023 in 2022 from 1613 in 2021.

In summary, TCS's **non-current assets** increased from 31,479 in 2021 to 33,204 in 2022. The increase in various categories such as capital work-in-progress, right-of-use assets, other intangible assets, and other assets indicates the company's investment in long-term assets to support its operations and growth.

	Note	As at March 31, 2022	As at March 31, 2021
ASSETS			
Current assets			
Inventories	10(e)	20	8
Financial assets			
Investments	8(a)	30,262	29,160
Trade receivables			
Billed	8(b)	34,074	30,079
Unbilled		7,736	6,583
Cash and cash equivalents	8(c)	12,488	6,858
Other balances with banks	8(d)	5,733	2,471
Loans	8(e)	6,445	11,472
Other financial assets	8(f)	1,390	1,394
Income tax assets (net)		11	19
Other assets	10(d)	10,151	11,236
Total current assets		1,08,310	99,280

TCS reported **inventories** of 20 in 2022, compared to 8 in 2021 and the **investments** had increased from 29,160 to 30,262 in 2022. **Billed Trade receivables** had increased from 30,079 to 34,074 and the **Unbilled trade receivables** had also increased from 6,583 to 7,736.

TCS's **cash and cash equivalents** had increased immensely to 12,488 in 2022, compared to 6,858 in 2021. The **other balances with banks** of 5,733 in 2022, compared to 2,471 in 2021. They had loans of 6,445 in 2022, compared to 11,472 in 2021.

TCS reported **other financial assets** of 1,390 in 2022, slightly lower than the 1,394 reported in 2021. The **other assets** are of 10,151 in 2022, compared to 11,236 in 2021.

In summary, TCS's **current assets** increased from 99,280 to 1,08,310 in 2022. The increase in various categories such as investments, trade receivables, cash and cash equivalents, and other assets indicates the company's overall growth in short-term assets and its ability to generate cash flow from operating activities.

	Note	
	As at March 31, 2022	As at March 31, 2021
ASSETS		
TOTAL ASSETS	1,41,514	1,30,759

Total assets represent the company's resources, both tangible and intangible, that are available to generate economic benefits. Overall, TCS's total assets increased from 1,30,759 in 2021 to 1,41,514 in 2022. The increase in both non-current and current assets indicate the company's growth and its ability to accumulate and utilize resources effectively.

L & T:

	Note	As at 31-3-2022	As at 31-3-2021
EQUITY AND LIABILITIES:			
Equity			
Equity share capital	20	281.01	280.91
Other equity	21	82126.65	75587.62
Equity attributable to owners of the Company		82407.66	75868.53
Non-controlling interests		12966.07	12051.53
TOTAL EQUITY		95373.73	87920.06

L&T reported **equity share capital** of 281.01 in 2022, compared to 280.91 in 2021 and had other equity of 126.65 in 2022, compared to 75 587.62 in 2021. They had non-controlling interests of 12 966.07 in 2022, compared to 12 051.53 in 2021.

In summary, L&T's **equity** increased from 87,920.06 in 2021 to 95,373.73 in 2022. The increase in equity can be attributed to various factors, including the issuance of new equity shares, retained earnings, and other comprehensive income. The presence of non-controlling interests indicates that L&T has subsidiaries or affiliated entities in which minority shareholders hold a stake.

	Note	As at 31-3-2022	As at 31-3-2021
Liabilities			
Non-current liabilities			
Financial liabilities			
Borrowings	22	61618.31	82120.04
Lease liability		1633.31	1617.72
Other financial liabilities	23	111.67	186.74
		63363.29	83924.50
Provisions	24	817.77	773.78
Deferred tax liabilities (net)	51(d)	1039.33	1178.66
Other non-current liabilities	25	21.27	68.70
Sub-total - Non-current liabilities		65241.66	85945.64

L&T reported **borrowings** of 61,618.31 in 2022, compared to 82 120.04 in 2021. They had **lease liabilities** of 1,633.31 in 2022, compared to 1,617.72 in 2021.

The **other financial liabilities** were decreased from 186.74 to 111.67 in 2022. L&T had provisions of 817.77 in 2022, compared to 773.78 in 2021. The **deferred tax liabilities** (net)

were decreased from 1,178.66 to 1,039.33 in 2022. L&T had **other non-current liabilities** of 21.27 in 2022, compared to 68.70 in 2021.

In summary, L&T's **non-current liabilities** decreased from 85 945.64 in 2021 to 65 241.66 in 2022. This decrease could be due to various factors, such as repayments of borrowings, settlement of provisions, or a shift in the company's long-term financial obligations.

	Note	As at 31-3-2022	As at 31-3-2021
Liabilities			
Current liabilities			
Financial liabilities			
Borrowings	26	30476.96	27765.83
Current maturities of long-term borrowings	27	31372.96	22719.39
Lease liability		406.54	406.10
Trade payables:			
Due to micro enterprises and small enterprises		575.91	488.99
Due to others	28	50568.33	45256.24
Other financial liabilities	29	6643.32	5328.93
		120044.02	101965.48
Other current liabilities	30	34644.10	31269.63
Provisions	31	3355.86	2998.68
Current tax liabilities (net)		1309.82	1171.02
Sub-total - Current liabilities		159353.80	137404.81

L&T reported **borrowings** of 30,476.96 in 2022, compared to 27,765.83 in 2021. They had **current maturities** of long-term borrowings of 31,372.96 in 2022, compared to 22,719.39 in 2021. **Lease liabilities** had the same range of 406 in both the years with slight difference in points.

Trade payables increased from 45,256.24 to 57,591.91 in 2022. L&T had **other financial liabilities** of 6,643.32 in 2022, compared to 5,328.93 in 2021.

They had **other current liabilities** of 34,644.10 in 2022, compared to 31 269.63 in 2021. **Provisions** of 3,355.86 in 2022, compared to 2,998.68 in 2021. L&T had **current tax liabilities (net)** of 1 309.82 in 2022, compared to 1 171.02 in 2021.

In summary, L&T's **current liabilities** increased from 1,37,404.81 in 2021 to 1,59,353.80 in 2022. This increase is due to various factors such as higher borrowings, increased trade payables, or the addition of other financial liabilities.

	Note	As at 31-3-2022	As at 31-3-2021
Liabilities			
TOTAL EQUITY AND LIABILITIES		<u>320048.92</u>	<u>311273.71</u>

L&T's **total equity and liabilities** increased from 3,11,273.71 in 2021 to 3,20,048.92 in 2022. This increase is due to changes in equity, non-current liabilities, current liabilities, and liabilities associated with assets classified as held for sale.

	Note	As at 31-3-2022	As at 31-3-2021
ASSETS:			
Non-current assets			
Property, plant and equipment	2	10578.87	11386.29
Capital work-in-progress	2	1170.32	388.37
Investment property	3	3962.98	3646.78
Goodwill	4	7476.98	8066.96
Other intangible assets	5	18729.37	19197.76
Intangible assets under development	5	79.23	112.02
Right-of-use assets	61(b)(iii)	1988.62	2021.53
Financial assets			
Investments in joint ventures and associates	43(e)	2729.35	2670.26
Other investments	6	7081.51	5945.14
Loans towards financing activities	7	46736.84	52631.67
Other loans	8	252.99	173.24
Other financial assets	9	2162.97	1420.19
		<u>58963.66</u>	<u>62840.50</u>
Deferred tax assets (net)	51(d)	2840.10	2697.00
Other non-current assets	10	6077.62	5949.67
Sub-total - Non-current assets		<u>111867.75</u>	<u>116306.88</u>

The value of **property, plant, and equipment** has decreased from 11,386.29 in 2021 to 10,578.87 in 2022. **Capital work-in-progress** has increased from 388.37 to 1,170.32. This indicates that the company has invested more in ongoing construction or development projects during the year. **Investment property** has increased from 3,646.78 in 2021 to 3,962.98 in 2022.

Goodwill has decreased from 8,066.96 to 7,476.98 in 2022. The value of **other intangible assets** has decreased from 19,197.76 to 18,729.37 in 2022. The value of **intangible assets under development** has decreased from 112.02 to 79.23 in 2022. **Right-of-use assets** has decreased from 2,021.53 to 1,988.62 in 2022. **Assets taken on lease** are accounted as right-of-use assets and the corresponding lease liability is recognized at the lease commencement date.

Deferred tax assets has increased from 2,697 to 2,840.10 in 2022 since the company has recognized additional tax benefits that can be utilized in future periods. The **other non-current assets** had increased from 5,949.67 in 2021 to 6,077.62 in 2022.

Overall, the **non-current assets** of L&T company have shown some variations in values across different categories.

	Note	As at 31-3-2022	As at 31-3-2021
ASSETS:			
Current assets			
Inventories	11	5943.32	5820.54
Financial assets			
Investments	12	29792.51	31011.23
Trade receivables	13	46138.92	42229.78
Cash and cash equivalents	14	13770.24	13373.52
Other bank balances	15	5182.93	2867.98
Loans towards financing activities	16	42269.20	41379.03
Other loans	17	280.34	235.35
Other financial assets	18	3840.04	3251.68
		141274.18	134348.57
Other current assets	19	60132.89	54791.48
Sub-total - Current assets		207350.39	194960.59

The value of **inventories** has increased from 5,820.54 to 5,943.32 in 2022. **Investments** has decreased from 31,011.23 in 2021 to 29,792.51 in 2022. This is due to changes in the fair value of investments and disposals of certain investment holdings.

Trade receivables has increased from 42,229.78 to 46,138.92 in 2022 and the value of **cash and cash equivalents** has increased from 13,373.52 in 2021 to 13,770.24 in 2022. This indicates that the company has generated more cash from its operations and has reduced its cash

outflows during the year. **Other bank balances** had increased from 2,867.98 to 5,182.93. The value of **other current assets** has increased from 54,791.48 in 2021 to 60,132.89 in 2022.

Overall, **the current assets** of L&T Company have shown variations in values across different categories. The increase in inventories, trade receivables, cash and cash equivalents, and other bank balances indicates potential growth and increased business activity.

	Note	As at 31-3-2022	As at 31-3-2021
ASSETS:			
TOTAL ASSETS		320048.92	311273.71

The **total assets** of L&T Company have increased from 311,273.71 in 2021 to 320,048.92 in 2022. This growth is primarily driven by the increase in current assets, while the decrease in non-current assets has partially offset the overall increase.

ANALYSIS/TECHNIQUES IMPLEMENTED:

- **Event-driven Analysis:** This analysis examines how specific events, such as earnings releases, product launches, regulatory changes, or management changes, affect a company's stock price by analyzing the impact of these events on stock performance.
- **Fundamental Analysis:** Evaluating a company's financial health and overall performance. Key metrics include earnings, profit margins, cash flow, debt levels, and market share.
- **Sentiment Analysis:** This analysis involves assessing market sentiment and investor perception towards a company. It includes monitoring news, social media, and other

sources to gauge public opinion. Sentiment analysis helps identify potential market trends and shifts in investor sentiment that may impact stock prices.

- **Correlation Analysis:** Correlation analysis in finance is a statistical technique used to measure the degree of relationship between two or more financial variables. It helps in understanding how changes in one variable are associated with changes in another variable.

Comparison of Company's Performance and Stock Price Movements:

I. EVENT-DRIVEN ANALYSIS:

Event-driven analysis is an approach to financial or investment analysis that focuses on the impact of specific events or news on the prices of financial assets, such as stocks, bonds, or derivatives. The key aspects involved are:

- 1) Identification
- 2) Classification
- 3) Analysis

1. Annual General Meeting:

An Annual General Meeting (AGM) is a mandatory yearly gathering of shareholders or members of an organization. It provides an opportunity for them to discuss important matters, make decisions, and elect individuals to key positions. AGMs are crucial for promoting transparency, accountability, and participation within an organization. They serve as a platform for stakeholders to voice their opinions, exercise their voting rights, and stay informed about the organization's affairs.

HCL:

DATE	STOCK PRICE		
	Previous day	That day	Next day
Sep 29, 2020	835	813	812
Aug 27, 2021	1167	1163	1163
Aug 16,2022	956	958	981

HCL conducted its 30th Annual General Meeting on August 16th, 2022. The following day, the stock prices experienced an increase of Rs.23 compared to the values recorded on previous days. The change was more than that of in 2021 and 2020. In 2020, the stock price decreased by Rs.1, whereas in 2021, it remained unchanged from the existing value.

TCS:

DATE	STOCK PRICE		
	Previous day	That day	Next day
Jun 11, 2020	2,109	2,068	2,040
Jun 10, 2021	3200	3217	3274
Jun 9,2022	3404	3427	3360

TCS conducted its 27th Annual General Meeting on June 9th, 2022. The subsequent day witnessed a significant decrease of Rs.67 in the stock prices, which was larger compared to previous years. In 2020, TCS observed a decline of Rs.28 from the stock prices recorded on the day of the meeting. Conversely, in 2021, there was an increase of Rs.57 from the meeting date.

L&T:

DATE	STOCK PRICE		
	Previous day	That day	Next day
Aug 13, 2020	950	991	983
Aug 5, 2021	1623	1627	1610
Aug 4,2022	1790	1780	1787

L&T conducted its 77th Annual General Meeting on August 4th, 2022. The subsequent day witnessed a notable increase of Rs.7 in the stock prices from the meeting date, which is

relatively high considering the consistent decline in price movements following the meetings held in previous years. In 2020, the company observed a decrease of Rs.8 after the meeting date, while in 2021, the decline amounted to Rs.17 from the meeting date.

COMPARISON OF COMPANIES' ANNUAL GENERAL MEETING:

In terms of stock price performance following general meetings, HCL consistently demonstrated a positive trend over the course of three years. In contrast, both TCS and L&T experienced declines after most meetings, except for TCS in 2020 and L&T in 2022. HCL did encounter a minor loss of Rs. 1 in 2020, but in 2021, its stock prices remained unchanged after the meeting. However, in 2022, HCL witnessed a significant increase of Rs. 23. When comparing these stock price movements with the other two companies, HCL emerged with better results.

2. ANNUAL REPORT PUBLICATION:

The annual report provides a comprehensive overview of the organization's activities and the key goal is to provide stakeholders with a comprehensive and accurate overview of the organization's performance and prospects.

HCL:

Since the stock prices on the day of the annual report publication were unavailable for the years 2020 and 2021, only the prices from the previous and next days were considered.

DATE	STOCK PRICE		
	Previous day	That day	Next day
Aug 30, 2020	706	-	694
Jul 24, 2021	994	-	1000
Jul 19, 2022	900	890	917

HCL released its Annual Report on July 19th, 2022, and the subsequent day witnessed a clear reflection on its stock prices with an increase of Rs.27. In 2021, there was an increment of Rs.6, while in 2020, the company experienced a decrease of Rs.12, which can be attributed to the understandable impact of Covid-19.

TCS:

DATE	STOCK PRICE		
	Previous day	That day	Next day
Jun 4, 2020	2,046	2,092	2,048
Apr 12, 2021	3,322	3,247	3,247
Mar 31, 2022	3732	3740	3759

TCS published its Annual Report on March 31st, 2022, and the subsequent day witnessed a significant increase of Rs.19 in its stock prices. In 2021, the stock prices remained unchanged

after the publication, while in 2020, the company faced a substantial decrease of Rs.44 during the challenging times of the Covid-19 pandemic.

L&T:

DATE	STOCK PRICE		
	Previous day	That day	Next day
Jul 11, 2020	947	930	926
Jun 18, 2021	1488	1476	1467
May 12, 2022	1571	1526	1535

L&T released its Annual Report on May 12th, 2022 and observed a notable increase of Rs.9 in its stock prices. This improvement after publication of annual reports is comparatively favorable considering the losses experienced in the previous two years. In 2020, the stock prices decreased by Rs.4, followed by a decrease of Rs.9 in 2021.

COMPARISON OF COMPANIES' ANNUAL REPORT PUBLICATION:

When comparing the stock price movements before and after the release of annual reports, HCL emerged as the top-performing company, consistently showing improvement. In 2020, TCS initially had a significant surplus of Rs. 46 on the day of publication, but suffered a notable loss of Rs. 44 the next day. The stock prices remained relatively unchanged in 2021, but TCS witnessed an increase of Rs. 9 in 2022. On the other hand, L&T had the smallest decline of Rs. 4 in 2020 compared to other companies, but experienced a loss of Rs. 9 in 2021. However, in 2022, L&T saw a noteworthy increase of Rs. 9 on the day following the publication of reports. In contrast, HCL, despite experiencing a loss of Rs. 12 in 2020, consistently observed positive growth in subsequent years, with an increase of Rs. 6 in 2021 and Rs. 27 in 2022. Therefore, the comparative analysis indicates that HCL performed better in the stock market immediately after the release of the company's annual reports.

II. **FUNDAMENTAL ANALYSIS:**

A method used to evaluate the intrinsic value of a company's stock by examining its financial statements, economic factors, industry trends, and qualitative aspects of the business. This analysis seeks to determine the true worth of a company's shares based on its underlying fundamentals rather than relying solely on market trends or price movements.

I. **BASED ON COMPANY'S EARNINGS:**

HCL:

DATE	REVENUE	STOCK PRICES		
		PREVIOUS DAY	THAT DAY	NEXT DAY
Mar 31, 2020	70,676	414	419	436
Mar 31, 2021	75,379	996	983	1003
Mar 31, 2022	85,651	1165	1164	1170

Over time, the company has experienced a consistent increase in both its earnings and stock prices. In 2022, HCL's earnings reached Rs. 85,651, representing a rise of Rs. 10,272 compared to the previous year, and the stock price also grew by Rs. 6. In 2021, there was earnings increase of Rs. 4,703 compared to 2020, and the stock price immediately jumped to an increment of Rs. 20. Despite the impact of Covid-19 in 2020, HCL managed to achieve earnings of around Rs. 70,000, accompanied by a stock price increment of Rs. 17.

TCS:

DATE	REVENUE	STOCK PRICES		
		PREVIOUS DAY	THAT DAY	NEXT DAY
Mar 31, 2020	1,56,949	1,779	1,826	1,709
Mar 31, 2021	1,64,177	3159	3178	3165
Mar 31, 2022	1,91,754	3732	3740	3740

Despite experiencing significant growth in earnings over the years, TCS did not see a corresponding increase in its stock prices. In 2022, TCS recorded substantial earnings of Rs. 1,91,754, representing a rise of Rs. 27,577 compared to the previous year. However, the stock prices remained unchanged on both the day the earnings were published and the following day. In 2021, TCS earned Rs. 1,64,177, which was Rs. 7,228 more than the previous year, but the stock prices consistently declined during that period. In 2020, TCS earned Rs. 1,56,949, and although the stock price increased by Rs. 47 on the first day, it experienced a significant loss of Rs. 120 the next day.

L&T:

DATE	REVENUE	STOCK PRICES		
		PREVIOUS DAY	THAT DAY	NEXT DAY
Mar 31, 2020	144308.1	798.65	808.5	774.35
Mar 31, 2021	155672.5	1423.55	1418.9	1444.6
Mar 31, 2022	134476.8	1773.6	1767.65	1790.1

In 2022, L&T's earnings decreased by Rs. 21,195.7 compared to the previous year. However, despite this decrease, the stock price saw a significant increase of Rs. 22.45. In 2021, the company's earnings rose to Rs. 1,55,672.5, representing an increase of Rs. 11,364.4, while the

stock price increased by Rs. 25.7. During the Covid-19 impact in 2020, L&T managed to earn Rs. 1,44,308, and on the day of earnings publication, the stock prices increased and followed by a substantial decrement of Rs. 34.15 on the next day.

COMPARISON OF COMPANIES' EARNINGS:

Upon comparison, it is notable that despite HCL having lower earnings compared to the others, it demonstrated consistent stock price movements in each fiscal year end from 2020 to 2022. In contrast, TCS experienced impressive earnings growth over the years, but this did not strongly reflect in its stock price beyond the day of the announcement. The rise in TCS stock prices was short-lived, followed by subsequent declines and significant losses the next day. L&T exhibited fluctuations in earnings across the three years, with an increase in 2021 compared to 2020, followed by a decrease in 2022. Despite these earnings fluctuations, L&T showed consistent stock price movements, except for 2020. In contrast, HCL exhibited steady improvement in their stock prices, albeit at a slower increment rate compared to the other companies. The key factor of consistency holds significant importance in the stock market, thus HCL is comparatively more successful in the stock market following each fiscal year end.

II. COMPARISON BASED ON MARKET CAPITALIZATION:

Market cap—or capitalization—refers to the total value of all a company's shares of stock. Knowing a company's market cap can help you compare the relative size of one company versus another.

*The rankings of the companies are assigned based on Market Capitalization data published in NSE website.

2020		
COMPANY	MCAP (in lakhs)	Overall Rank
HCL	1,18,42,434	16th
TCS	6,85,22,297	2nd
L&T	1,13,49,263	17th

In 2020, the three companies backed among the top 20 companies in India (while comparing with all other sectors) and the TCS excelled by achieving the 2nd place in the list of highest earned market capitalization with Rs.1,18,42,434 and it is the top most company in the IT sector to bear this high market capitalization in 2020. The other two companies HCL and L&T had comparatively less, yet backed the places of 16th and 17th in the list with Rs.6,85,22,297 and Rs.1,13,49,263. While comparing the three companies, TCS had an impressive record of market capitalization more than any other company in the IT sector.

2021		
COMPANY	MCAP (in lakhs)	Overall Rank
HCL	26665830	13th
TCS	117550304	2nd
L&T	19927530	18th

HCL climbed up to the 13th position, surpassing its previous 16th spot, with a market capitalization of Rs. 2,66,65,830 lakhs by the end of March 31, 2021. Despite L&T experiencing an increase in market capitalization of Rs. 85,78,267 lakhs, it faced tough competition from other companies, causing it to slip from the 17th to the 18th position. TCS,

on the other hand, maintained its second-place ranking on the list, with a substantial increment of Rs. 4,90,28,007 lakhs, solidifying its position as the leading company in the IT sector.

2022		
COMPANY	MCAP (in lakhs)	Overall Rank
HCL	31580278	13th
TCS	138342672	2nd
L&T	24834879	20th

In 2022, HCL achieved the 13th position among all companies on the list, recording a significant increment of Rs. 49,14,448 lakhs. On the other hand, despite experiencing an increment of Rs. 49,07,349 lakhs, L&T was pushed down to the 20th position from its previous standing at 18th due to the growth of other companies in the stock market list. TCS, consistently maintaining its 2nd position over the years, showcased an impressive increase of Rs. 2,07,92,368 lakhs, securing the top position as the leading company in the IT sector.

Overall Comparison:

Market capitalization plays a crucial role in assessing a company's worth, enabling potential investors to gauge its value. When comparing the growth and rankings of the three companies based on market capitalization, all three have demonstrated a consistent increase over the years. HCL always manages to get to the 2nd or 3rd place in the top list of IT companies while the L&T gets around the range of 4-7 in the list. But TCS outperformed both HCL and L&T in these three years in terms of market capitalization and market ranking, securing the top position in the IT industry.

III. SENTIMENT ANALYSIS:

Sentiment analysis can be applied to assess the sentiment surrounding a company's performance and its potential impact on stock price movements. By analysing relevant text data such as news articles, social media posts, financial reports, and investor sentiments, sentiment analysis can provide insights into the overall sentiment towards the company and its stock.

1. BASED ON INDUSTRY'S PERFORMANCE:

“Indian IT industry: Miracle of brilliance” published by The Times of India on September 11, 2022. Since the stock market was closed on that day, the prices on 10th September and 12th September, 2022 are listed here.

COMPANY	STOCK PRICES	
	PREVIOUS DAY	NEXT DAY
HCL	949	956
TCS	3218	3243
L&T	1950	1962

Following the publication on September 11, 2022, all three companies experienced a positive impact on their stock prices. HCL observed a modest increase of ₹7, L&T saw a rise of ₹12, while TCS enjoyed the highest boost with a substantial increase of ₹25 in its stock prices. Among the three companies, TCS was particularly influenced by the article pertaining to the IT industry, which had the most significant impact on its stock prices.

2. BASED ON NEWS ARTICLES:

TCS:

“TCS becomes India's most valuable brand in 2022, says Kantar BrandZ report”, TCS replaces HDFC Bank, which held the number one spot since 2014.

DATE	STOCK PRICE		
	Previous day	That day	Next day
Sep 14, 2022	2,374.10	2,491.40	2,491.40

According to the Kantar BrandZ report on India's most valuable brands, Tata Consultancy Services (TCS) took over the top position from HDFC Bank in 2022 as India's most valuable brand. On the day the report was published, the stock price of TCS increased from Rs.2,374.10 to Rs.2,491.40. The stock price remained unchanged the following day.

HCL:

The article “HCL Tech puts IT investors on edge” published by Pallavi Pengonda & Harsha Jethmalani on December 11, 2022.

DATE	STOCK PRICE		
	Previous day	That day	Next day
December 11, 2022	866.75	862.25	873

HCL Technologies Ltd.'s stock was the biggest loser among the Nifty 50 companies on Friday, falling almost 7%. Despite experiencing a loss in the stock market, HCL managed to make a gain of Rs.4.5 on the day the news was published. Surprisingly, the following day, which was Sunday, December 12, HCL saw a significant increase of Rs.10.75 in its stock price, even though it had previously incurred losses on Friday evening.

L&T:

The article “L&T Technology Services (NSE:LTTS) Will Pay A Larger Dividend Than Last Year At ₹15.00” was published on July 01, 2022.

DATE	STOCK PRICE		
	Previous day	That day	Next day
July 1, 2022	1558.25	1572.15	1581.7

When the L&T had agreed to pay a larger dividend than last year, on the day the article was published, the stock prices experienced a substantial increase, reaching a higher level of Rs.13.9. The following day, however, the stock prices showed an increment from Rs.1572.15 to Rs.1581.7.

Overall Comparison on News Articles:

The influence of news articles or online publications on stock markets is clearly demonstrated by the changes in stock price movements of the three companies. All three companies experienced significant upward trends in their stock prices, attributed to the impacts of the news articles that were published.

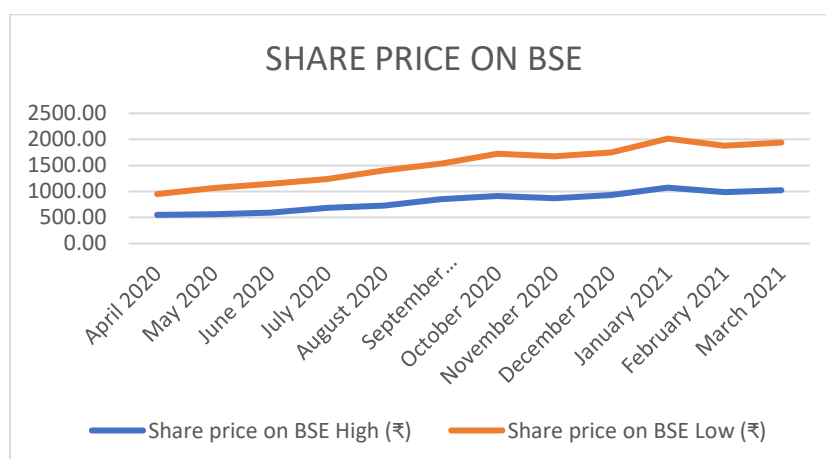
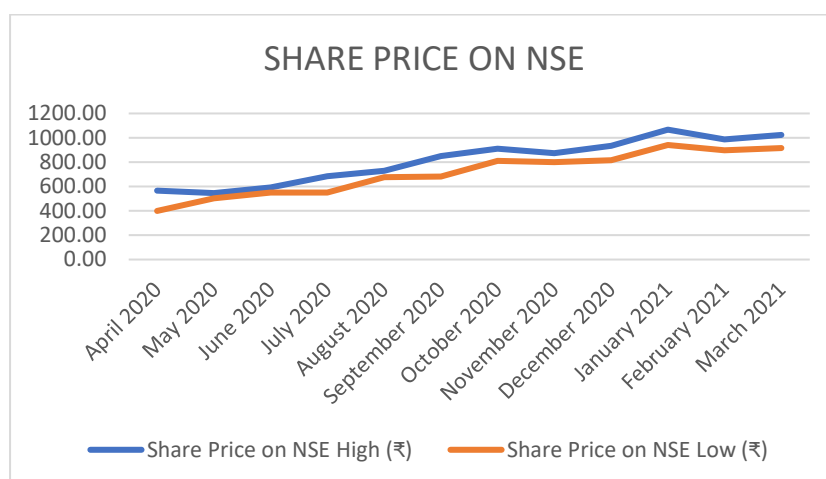
STOCK MARKET DATA BASED ON COMPANY’S ANNUAL REPORT:

If you notice in the annual reports of all IT companies published after March 31, 2021, there is a separate section “Shareholders’ for the stock market data with all the details of the company’s stocks from the start to the end of the fiscal year. In each company’s annual report, the contents might differ according to their company structure so here for this analysis we are taking up only three common factors: Month, High Price, and Low Price.

HCL:

2020-21:

Month	Share Price on NSE		Share price on BSE	
	High (₹)	Low (₹)	High (₹)	Low (₹)
April 2020	565.50	399.30	550.00	399.65
May 2020	546.00	502.40	563.80	502.10
June 2020	593.50	550.00	593.30	550.50
July 2020	684.80	551.00	684.95	551.00
August 2020	729.00	677.05	728.80	678.00
September 2020	849.90	682.40	849.70	682.80
October 2020	910.70	811.20	910.75	811.25
November 2020	872.80	800.25	872.70	800.60
December 2020	935.00	815.10	934.00	815.05
January 2021	1,067.00	941.00	1,073.55	940.75
February 2021	986.50	896.35	986.00	890.00
March 2021	1,023.90	915.65	1,023.90	916.00

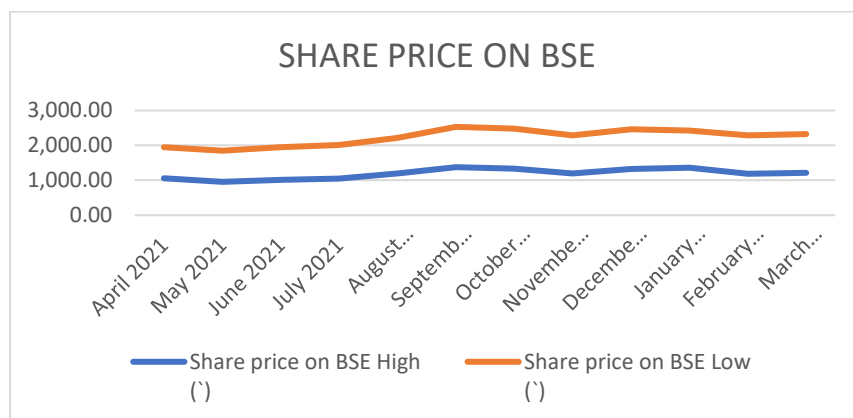
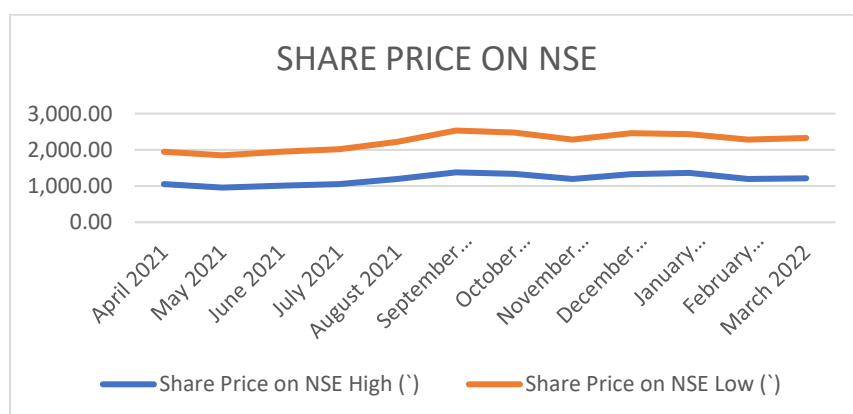


HCL's stock prices experienced fluctuations at the beginning of 2020, but over the fiscal year from April 2020 to March 2021, they demonstrated a consistent upward trend. The significant

increase in the low price of HCL stocks suggests that the company underwent growth and derived advantages from its stock performance.

2021-22:

Month	Share Price on NSE		Share price on BSE	
	High (₹)	Low (₹)	High (₹)	Low (₹)
April 2021	1,054.80	895.40	1,054.90	895.75
May 2021	956.90	891.00	956.50	891.25
June 2021	1,010.00	934.75	1,010.00	935.15
July 2021	1,052.50	960.30	1,052.25	960.15
August 2021	1,193.40	1,023.05	1,193.15	1,023.10
September 2021	1,377.75	1,154.00	1,377.00	1,153.95
October 2021	1,338.00	1,138.00	1,338.00	1,138.35
November 2021	1,195.10	1,090.00	1,195.00	1,090.00
December 2021	1,329.45	1,131.40	1,329.35	1,131.20
January 2022	1,359.40	1,070.20	1,359.00	1,070.40
February 2022	1,191.90	1,092.00	1,191.80	1,092.45
March 2022	1,215.00	1,109.00	1,215.05	1,109.45



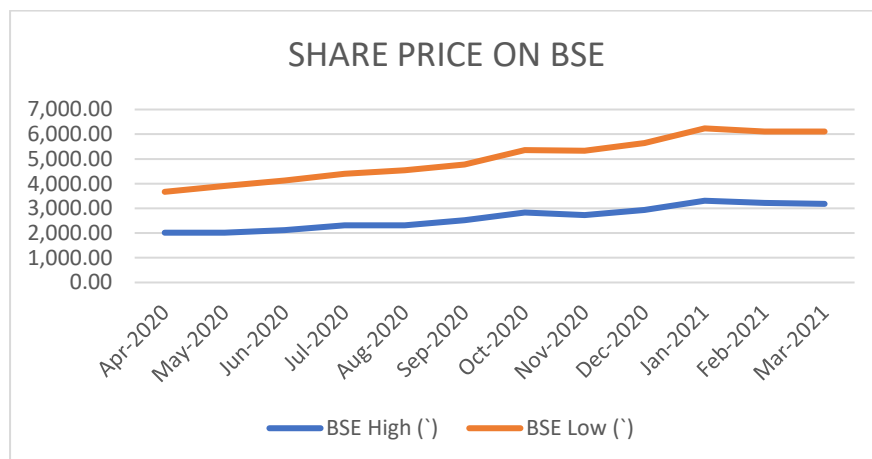
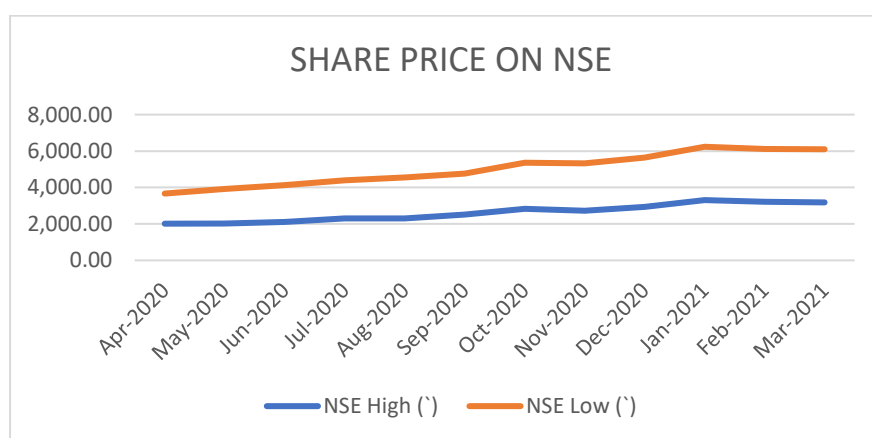
Despite starting 2021 with a slight downtrend, HCL managed to rebound and reach higher levels of stock prices during the middle of the fiscal year from April 2021 to March 2022. Towards

the end of the year, the company experienced a more moderate trend. Notably, throughout the year, HCL's stock prices remained impressively high, even during periods of lower prices.

TCS:

2020-21:

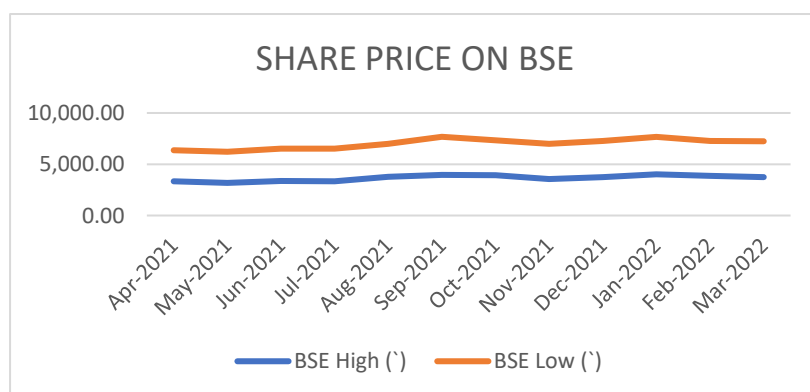
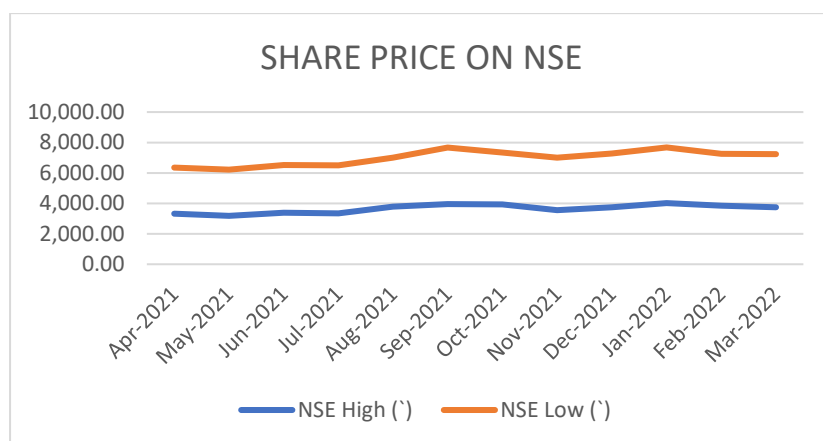
Month	NSE		BSE	
	High (₹)	Low (₹)	High (₹)	Low (₹)
Apr-2020	2,014.45	1,654.20	2,014.85	1,654.40
May-2020	2,020.35	1,891.65	2,018.95	1,891.25
Jun-2020	2,118.85	2,016.10	2,115.60	2,010.90
Jul-2020	2,309.75	2,092.05	2,309.20	2,092.55
Aug-2020	2,308.10	2,238.55	2,307.70	2,237.10
Sep-2020	2,522.95	2,246.35	2,523.55	2,245.30
Oct-2020	2,830.00	2,523.45	2,831.20	2,522.75
Nov-2020	2,726.60	2,604.60	2,725.90	2,603.85
Dec-2020	2,930.50	2,709.45	2,930.65	2,708.45
Jan-2021	3,308.80	2,928.25	3,308.20	2,928.20
Feb-2021	3,214.10	2,894.30	3,215.15	2,896.05
Mar-2021	3,177.85	2,924.20	3,177.60	2,926.20



TCS has shown remarkable stock price performance during the fiscal year 2020-21, consistently witnessing price increments despite the challenges faced by the company due to Covid-19. The stock prices have experienced a significant upward trajectory, approaching the levels of previous highs, indicating the remarkable growth and success of TCS in the stock market.

2021-22:

Month	NSE		BSE	
	High (₹)	Low (₹)	High (₹)	Low (₹)
Apr-2021	3,322.25	3,035.65	3,322.20	3,038.40
May-2021	3,180.00	3,037.00	3,180.20	3,037.00
Jun-2021	3,380.80	3,129.45	3,380.70	3,129.30
Jul-2021	3,341.50	3,167.45	3,341.00	3,167.50
Aug-2021	3,786.45	3,219.40	3,786.55	3,217.90
Sep-2021	3,954.55	3,714.95	3,954.80	3,714.05
Oct-2021	3,935.65	3,397.75	3,935.30	3,398.80
Nov-2021	3,556.40	3,443.30	3,555.15	3,443.55
Dec-2021	3,738.35	3,536.40	3,736.85	3,534.35
Jan-2022	4,019.15	3,649.25	4,019.10	3,650.10
Feb-2022	3,856.20	3,401.65	3,857.00	3,402.25
Mar-2022	3,749.85	3,484.90	3,750.00	3,485.30

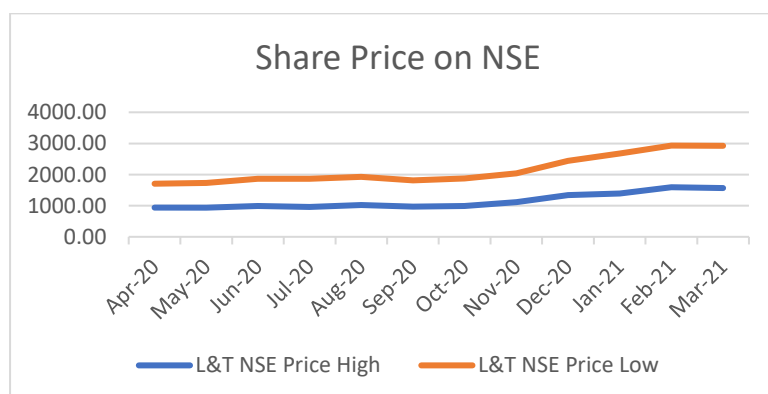
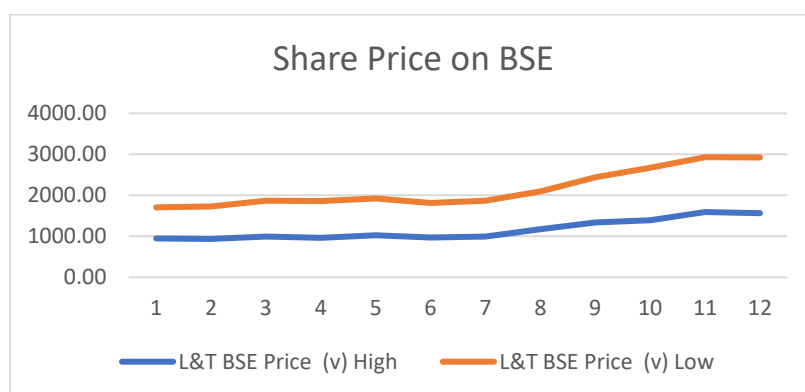


During the fiscal year spanning April 2021 to March 2022, TCS witnessed fluctuations in its stock prices. However, the company successfully maintained even its low stock prices above the three-thousand level. In early 2022, TCS experienced a significant surge in stock price, but it eventually settled to an average price by the end of March 2022.

L&T:

2020-21:

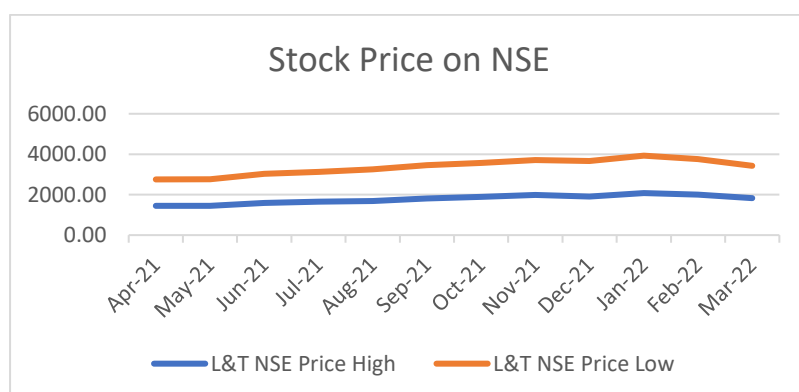
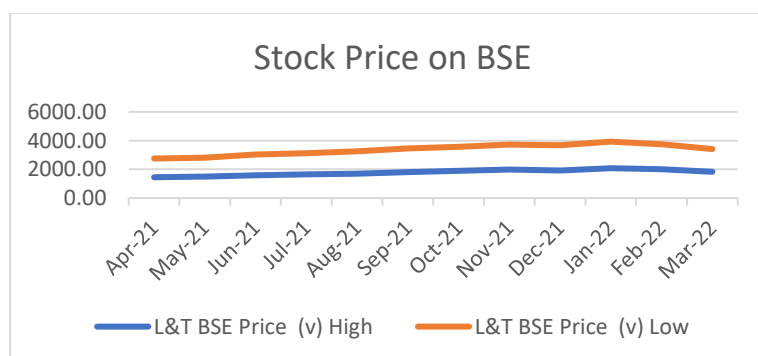
Month	L&T NSE Price		L&T BSE Price	
	High	Low	High	Low
Apr-20	943.00	762.80	945.00	763.00
May-20	937.00	791.70	937.00	791.55
Jun-20	995.00	874.00	995.00	874.40
Jul-20	964.00	896.30	963.80	896.50
Aug-20	1024.00	903.55	1024.95	903.40
Sep-20	971.00	843.00	970.85	842.50
Oct-20	994.65	876.05	994.85	876.25
Nov-20	1117.00	920.65	1176.75	920.50
Dec-20	1338.50	1104.10	1338.40	1104.20
Jan-21	1396.40	1283.00	1395.75	1281.00
Feb-21	1593.00	1337.20	1593.00	1337.75
Mar-21	1565.00	1360.05	1565.00	1360.50



Throughout the months of 2020, L&T maintained a consistent level of stock prices, with minimal fluctuations. However, towards the end of 2020, the company experienced a sudden upward movement in its stock prices, reaching a higher level by the end of March 2021. Notably, L&T also managed to maintain a decent low-price level throughout this period. of time.

2021-22:

Month	L&T NSE Price		L&T BSE Price (v)	
	High	Low	High	Low
Apr-21	1447.85	1306.00	1447.80	1306.40
May-21	1449.65	1319.15	1499.80	1320.65
Jun-21	1583.00	1447.25	1582.65	1448.00
Jul-21	1647.15	1475.50	1647.00	1475.85
Aug-21	1684.95	1562.75	1684.80	1563.30
Sep-21	1810.00	1655.20	1810.00	1657.20
Oct-21	1885.00	1684.05	1884.90	1684.40
Nov-21	1981.75	1735.15	1982.95	1735.25
Dec-21	1909.00	1762.05	1908.75	1763.00
Jan-22	2078.55	1850.10	2078.20	1850.80
Feb-22	2008.00	1751.00	2006.80	1750.55
Mar-22	1826.95	1595.00	1826.35	1595.00



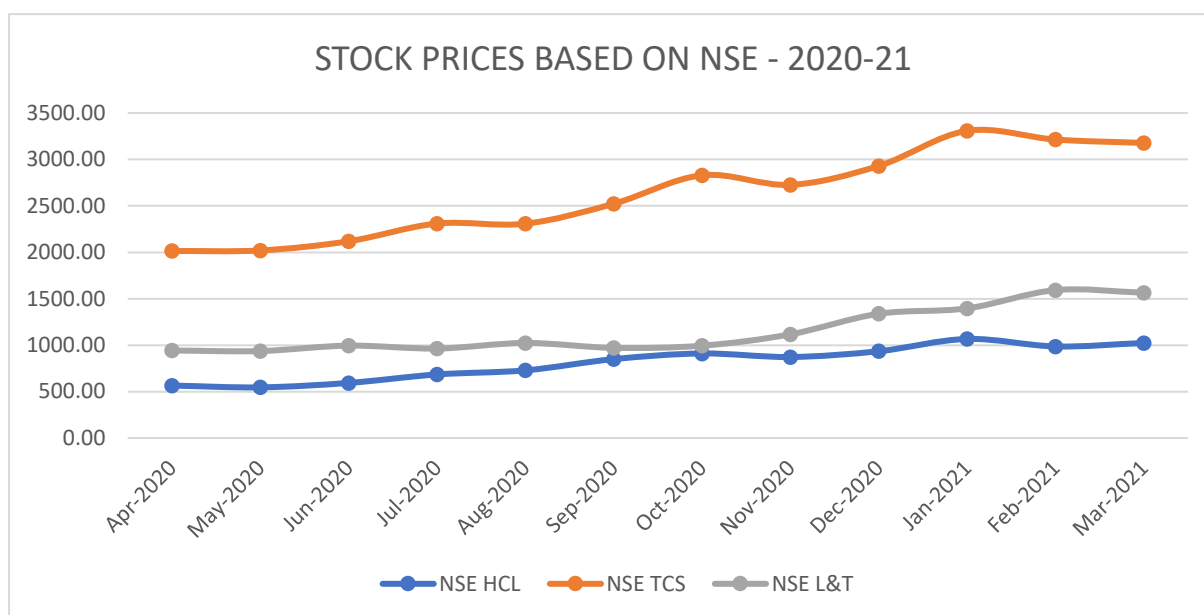
L&T commenced the year with a strong start, witnessing gradual increases in its stock prices as the year progressed towards the end of 2021. The company then experienced a significant surge in its stock prices at the beginning of 2022, reflecting impressive growth. However, by the end of March 2022, L&T's stock prices had once again returned to the average level observed during the middle of 2021.

OVERALL COMPARISON - STOCK PRICES OF COMPANIES (MONTHLY):

In this comparison, we will focus solely on the NSE data of the companies since the stock prices on the NSE and BSE exchanges exhibit only marginal differences.

2020-21:

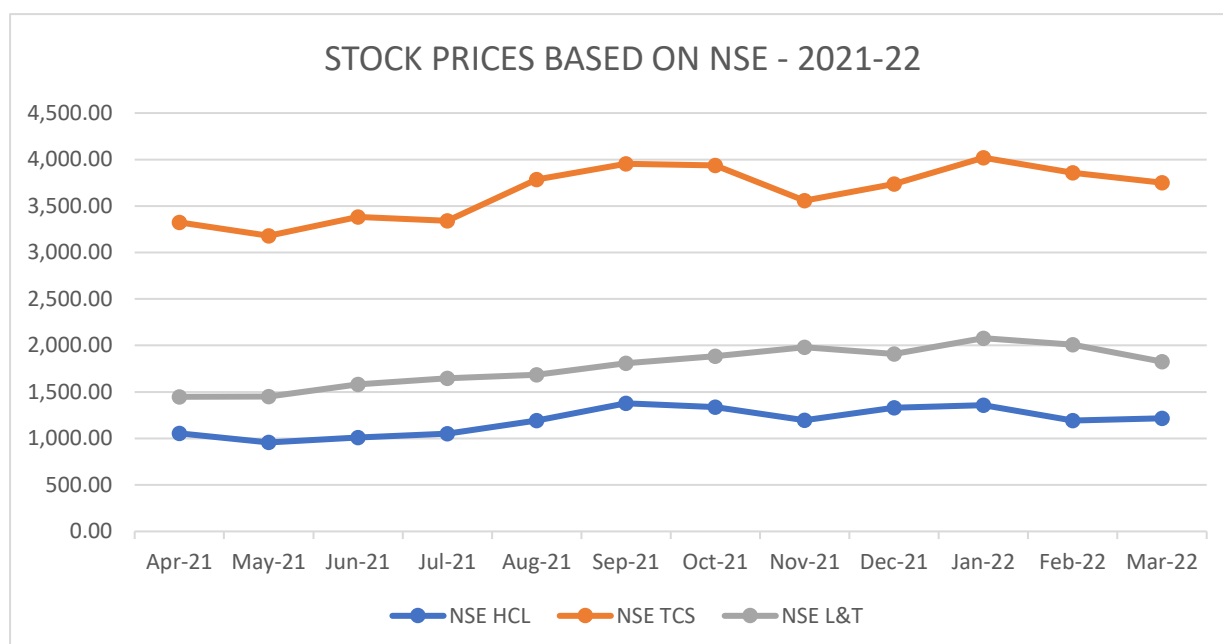
Month	NSE		
	HCL	TCS	L&T
Apr-2020	565.50	2,014.45	943.00
May-2020	546.00	2,020.35	937.00
Jun-2020	593.50	2,118.85	995.00
Jul-2020	684.80	2,309.75	964.00
Aug-2020	729.00	2,308.10	1024.00
Sep-2020	849.90	2,522.95	971.00
Oct-2020	910.70	2,830.00	994.65
Nov-2020	872.80	2,726.60	1117.00
Dec-2020	935.00	2,930.50	1338.50
Jan-2021	1,067.00	3,308.80	1396.40
Feb-2021	986.50	3,214.10	1593.00
Mar-2021	1,023.90	3,177.85	1565.00



After analyzing the graphical representation, it becomes evident that HCL and L&T had relatively similar stock prices for a few months, with HCL consistently maintaining slightly higher prices than L&T. In contrast, TCS exhibited a consistent upward trend in its stock prices throughout the entire year. When considering the consistency of prices, TCS outshined both HCL and L&T as it experienced minimal fluctuations and maintained stable prices from April 2020 to March 2021. This remarkable price consistency played a pivotal role in TCS's successful performance in the stock market during the fiscal year 2020-21.

2021-22:

Month	NSE		
	HCL	TCS	L&T
Apr-21	1,054.80	3,322.25	1447.85
May-21	956.90	3,180.00	1449.65
Jun-21	1,010.00	3,380.80	1583.00
Jul-21	1,052.50	3,341.50	1647.15
Aug-21	1,193.40	3,786.45	1684.95
Sep-21	1,377.75	3,954.55	1810.00
Oct-21	1,338.00	3,935.65	1885.00
Nov-21	1,195.10	3,556.40	1981.75
Dec-21	1,329.45	3,738.35	1909.00
Jan-22	1,359.40	4,019.15	2078.55
Feb-22	1,191.90	3,856.20	2008.00
Mar-22	1,215.00	3,749.85	1826.95



During the fiscal year from April 2021 to March 2022, all three companies demonstrated commendable performance in maintaining their stock prices. However, L&T stood out from TCS and HCL by exhibiting fewer fluctuations and maintaining a consistent level of stock prices throughout the year. While HCL experienced significant fluctuations between high and low prices, and TCS saw a consistent increase in stock prices, they both failed to maintain overall price consistency. In contrast, L&T's stock prices showed a consistent upward trend throughout the entire time period, making it the leader in terms of both increasing prices and maintaining consistency.

IV. CORRELATION ANALYSIS:

In finance, correlation analysis plays a crucial role in assessing the relationship between various financial assets or investment portfolios.

Relationship between Revenue and Expenses:

COMPANY	YEAR	REVENUE	EXPENSES	CORRELATION
L&T	2020	1,47,813.26	1,34,382.31	0.999859
	2021	1,39,408.38	1,27,172.58	
	2022	1,58,788.31	1,44,377.58	
HCL	2020	71,265.00	57,285.00	0.996888
	2021	76,306.00	60,453.00	
	2022	86,718.00	69,766.00	
TCS	2020	1,61,541.00	1,19,293.00	0.998968
	2021	1,67,311.00	1,22,333.00	
	2022	1,95,772.00	1,44,085.00	

The revenue and expenses of each of the three companies, namely HCL, TCS, and L&T, show a consistent positive relationship. This indicates that when the revenue of these companies increases, their expenses also tend to increase. The strong positive correlation, around 0.9, among these companies signifies that they have maintained high levels of efficiency and profitability over the years, regardless of internal or external conditions.

Relationship between Assets and Liabilities:

COMPANY	YEAR	LIABILITIES	ASSETS	CORRELATION
L&T	2020	2,30,492.05	3,08,140.13	-0.493720261
	2021	2,22,229.99	3,11,273.71	
	2022	2,24,459.54	3,20,048.92	
HCL	2020	31,485.00	82,906.00	-0.801410571
	2021	26,112.00	86,194.00	
	2022	27,027.00	89,033.00	
TCS	2020	36,150.00	1,20,899.00	1
	2021	43,651.00	1,30,759	
	2022	51,668.00	1,41,514.00	

When assessing the relationship between assets and liabilities, L&T and HCL exhibited a negative correlation, whereas TCS showed a correlation of exactly 1. Among the three companies, L&T had the most negative correlation. But, TCS demonstrated a positive correlation of 1, indicating a strong relationship between its assets and liabilities.

Relationship between Receivables and Payables:

COMPANY	YEAR	RECEIVABLES	PAYABLES	CORRELATION
L&T	2020	40,731.52	43,643.93	0.999515232
	2021	42,229.78	45,504.61	
	2022	46,138.92	51,144.24	
HCL	2020	14,131	1,166	0.938817223
	2021	17,525	5,457	
	2022	20,671	6,278	
TCS	2020	398	6,740	-0.663657121
	2021	302	7,860	
	2022	366	8,045	

The relationship between the trade payables and receivables gives us an insight on the liquidity of the company and its ability to manage the cashflows. A positive correlation between payables and receivables means that as payables increase/decrease, receivables also increase/decrease.

This indicates that the company's liquidity is relatively stable or balanced where as a negative correlation denotes the situation that reflects a potential liquidity risk for the company. A negative correlation suggests that the company is struggling to collect payments from customers (increasing receivables) while simultaneously extending its payment terms to suppliers (increasing payables). In this comparison, the companies L&T and HCL have a strong positive relationship between the trade receivables and payables while only TCS faces a negative correlation.

Market Reaction and Insights:

The findings reveals that each of the three companies had performed well from 2020-22 and shined over the years with their unique strategies and plans. The investors who are interested in investing in the stocks of IT companies can decide upon the derived results of any analysis that has been undertaken in this research according to their perspective on how the company's performance should be, since the company's performance varies from aspect to aspect for all the companies.

The Market Reaction and Insights of each of the analysis are as follows:

- 1. Event-driven Analysis:** A comprehensive exploration of the relationship between events and their influence on the company's financial and market performance.
 - 1) Annual General Meeting:** Following the annual general meeting, HCL demonstrated stronger stock price performance compared to the other two companies.
 - 2) Annual Report Publication:** It is evident that HCL exhibited superior performance in the stock market immediately after the release of the company's annual reports. Investors and market participants showed a greater level of confidence and positive response to HCL's annual reports, resulting in a notable increase in its stock price.

2. Fundamental Analysis: This aims to assess the performance of a company and examine its influence on the corresponding movements in its stock price.

- 1) **Company's Earnings:** Despite HCL having lower earnings when compared to its other companies, the company exhibited consistent stock price movements in each fiscal year end. This emphasis on consistency holds immense significance in the stock market, positioning HCL as a comparatively more successful player in the market during the post-fiscal year period.
- 2) **Comparison on Market Capitalization:** Market capitalization refers to the total value of a company's outstanding shares of stock in the stock market. It is calculated by multiplying the company's current share price by the total number of outstanding shares. Market capitalization is used as a measure of a company's size and is often used to compare companies within the same industry or across different sectors. In terms of market capitalization and market ranking, TCS outshined both HCL and L&T during 2020-22, securing the leading position in the IT industry. TCS outperformed its peers, positioning itself at the top in terms of market capitalization and establishing its dominance in the industry.

3. Sentiment Analysis: If sentiment analysis reveals predominantly positive sentiment towards the company's performance, it suggests that investors and market participants view the company favorably. Positive sentiment can indicate strong financial results, successful business strategies, or favorable market conditions.

- 1) **Industry Performance:** Out of the three companies, TCS experienced the most pronounced influence on its stock prices due to the article "Indian IT industry: Miracle of brilliance" focusing on the IT industry. The article had a substantial impact on TCS's stock prices compared to the other two companies.

- 2) **News Articles:** All three companies experienced significant upward trends in their stock prices, attributed to the impacts of the news articles that were published.

4. Monthly Stock Data Comparison: Analyzing and comparing the performance of one or more stocks over a specific period, typically on a month-to-month basis.

During the fiscal year **2020-2021**, **TCS** demonstrated exceptional price consistency, outshining both HCL and L&T. From April 2020 to March 2021, TCS experienced minimal fluctuations in its stock prices, maintaining a remarkable level of stability. This consistency in price movements played a pivotal role in TCS's successful performance in the stock market throughout the fiscal year 2020-2021. But in the fiscal year **2021-2022**, **L&T** emerged as the leader in terms of both consistent price growth and stability, as its stock prices exhibited a continuous upward trend throughout the entire time period. This consistent upward trend in prices distinguished L&T from the other companies, highlighting its strong performance and reliable market presence.

5. Correlation Analysis: It helps investors, analysts, and portfolio managers understand how different financial instruments or assets move in relation to each other.

- 1) **Relationship between Revenue and Expenses:** The strong positive correlation, around 0.9, among these companies signifies that they have maintained high levels of efficiency and profitability over the years, regardless of internal or external conditions.
- 2) **Relationship between Assets and Liabilities:** TCS exhibited a strong positive correlation of 1, indicating a significant relationship between its assets and liabilities. It's important to remember that the correlation between assets and liabilities for any company, including IT companies, can be influenced by various factors, such as the

company's financial management strategy, economic conditions, and specific business circumstances.

- 3) **Relationship between Receivables and Payables:** For investors prioritizing liquidity concerns, choosing companies with a positive correlation like HCL and L&T would be preferable.

Results and Conclusion:

Investors seeking a company that remains relatively unaffected by specific events (**Event-driven analysis**) such as earnings releases or management changes should consider selecting HCL Tech. Despite having comparatively lower earnings compared to other companies, HCL Tech experiences significant impacts on its stock prices due to these events, making it an attractive choice for investors concerned with price volatility.

If the investors are more concerned about the key metrics including the earnings and market value (**Fundamental Analysis**). When comparing earnings, it is worth noting that HCL had lower earnings compared to other companies. However, HCL demonstrated consistent growth and stability in its earnings over the years. But still, TCS has excelled in maintaining and improving its stock prices over the years, with notably higher earnings. This combination of strong market value and higher earnings makes TCS an exceptional choice for investors.

Investors looking for a company that excels in market trends and sentiments (**Sentimental Analysis**), should consider choosing TCS. While all three companies experienced positive impacts on their stock price movements following online or article publications, TCS had demonstrated excellence in improvising its goodwill and reputation in the industry. TCS consistently maintains its position as the leading IT company in India, making it an outstanding choice for investors.

Investors who prioritize selecting a company based on **monthly stock comparisons** should consider TCS or L&T. Both companies have shown commendable consistency in maintaining their stock prices with minimal fluctuations.

If the investors are more interested in deciding the company based on the performance of the company, then **correlation analysis** is the best choice for interpreting the results. All the three companies have been exceptionally good with their efficiency and profitability rate. While comparing the liquidity of the companies, HCL and L&T had been at its best while TCS faced a weak negative relationship between their assets and liabilities. The relationship between assets and liabilities of TCS has a strong positive relationship which indicates that the company has stability, growth potential and better profitability.

Overall, comparing all the inferences, TCS is a better choice for any investor who is looking forward to invest in an IT stock as it has better stock price movements regardless of the prevailing internal or external conditions in the industry. Furthermore, TCS holds the distinction of being the top-performing IT company in India which makes it more attractive in the eyes of Investors.

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