J.P.M.C. - Assignment 2

# Problem Statement: Create a line chart of stock returns over time of any 5 companies.

# Overview of Code:

* Code draws a line chart of Stock Data of five IT companies (TCS, INFOSYS, WIPRO, HCL TECH, TECH MAHINDRA).
* Code uses yfinance package to extract historic data of stock from yahoo finance.
* Code uses datetime package to find current date and date five years back (to find five years data).
* Code uses matplotlib package to draw chart for analysis.

# Code:

1. import datetime
2. import yfinance as yf
3. import matplotlib.pyplot as plt
4. present\_date = datetime.datetime.today().strftime('%Y-%m-%d')
5. five\_years\_back\_date = (datetime.datetime.now() - datetime.timedelta(days=(5\*365+1))).strftime('%Y-%m-%d')
6. IT\_Companies = ['TCS', 'INFY', 'WIPRO.NS', 'HCLTECH.NS', 'TECHM.NS']
7. data = yf.download(IT\_Companies,F'{five\_years\_back\_date}',F'{present\_date}')
8. data["Close"].plot()
9. plt.title("Previous 5 year Stock Data of IT Companies")
10. plt.xlabel("Years")
11. plt.ylabel("Closing Price")
12. plt.legend()
13. plt.grid()
14. plt.tight\_layout()
15. plt.show()

Output:

