Stock Trading System:
My parent is passionate about the stock market since I was little. I would like to write a program from them to get the stock data and simple analysis easily. Also, I would like to add function to forecast the stock price by different financial methods. After the project, I will give them as a gift, to thanks them supporting me for the MIDS program.

(1)
class Stock:
'''the information of the stock."

```
    def __init__(self, symbol, start_year, end_year):

    def getData(self):
        '''Get data of the stock, such as Open Price, Volume'''

    def output_To_Csv(self):
        '''Out the stock data as stock_data.csv file'''
```

(2)
class Plot:

```
    '''Visualizing the Data'''

    def __init__(self, stock1):

    def plotOpen(stock1):
         '''Plot the Open Price of one stock'''

    def plotVolume(stock1):
        '''Plot the Volume of one stock'''

    def plotTotalTraded(stock1):
        '''Plot the Total Traded of one stock'''

    def plotMovingAverages(stock):
        '''Plot the Moving Averages of one stock'''
```

(3)
class Plot3Stock(Plot):

```
     '''Visualizing the Data for 3 stock'''

    def __init__(self, stock1, stock2, stock3):

    def plotOpen(stock1, stock2, stock3):
        '''Plot the Open Price of three stock'''

    def plotVolume(stock1, stock2, stock3):
        '''Plot the Volume of three stock'''

    def plotTotalTraded(stock1, stock2, stock3):
        '''Plot the Total Traded of three stock'''

    def plotScatterMatrix(stock1, stock2, stock3):
        '''Plot the ScatterMatrix of three stock'''
```

(4)

```
class Analyze:
    ‘’’Analyze one stock’’’

    def __init__(self, stock1):

    def dailyPercentageChangeHist(stock1):
        '''Plot the daily Percentage Change Histogram of one stock’’’

    def dailyPercentageChangeBox(stock1):
        '''Plot the daily Percentage Change Box of one stock'''

    def cumulativeReturn(stock1):
        '''Plot the Cumulative Return of one stock'''
```

(5)

```
class Analyze3Stock(Analyze):
    ‘’’Analyze 1~3 stock’’’

    def __init__(self, stock1, stock2, stock3):

    def dailyPercentageChangeHist(stock1, stock2, stock3):
        '''Plot the daily Percentage Change Histogram of three stock’’’

    def dailyPercentageChangeBox(stock1, stock2, stock3):
        '''Plot the daily Percentage Change Box of three stock'''

    def dailyPercentageChangeScatterMatrix(stock1, stock2, stock3):
        '''Plot the Daily Percentage Change Scatter Matrix of three stock'''

    def cumulativeReturn(stock1, stock2, stock3):
        '''Plot the Cumulative Return of three stock'''
```