

## ML with Python Lab - Assignment 5

Create a Dataframe for the given Data

**Columns : Date, Open, High, Low, Close**

```
10-01-16,770.25,776.075902,769.5,782.659998
10-02-16,776.030029,778.730022,780.890015,776.429993
10-03-16,774.25,776.065702,766.5,772.549798
10-04-16,776.030029,771.710022,772.890015,776.429993
10-05-16,779.3541998,782.073407,775.650024,776.469971
10-06-16,776.306698,782.46398,775.539978,776.859985
10-07-16,779.659973,779.659973,770.75,775.080017
10-08-16,776.309998,782.070007,775.650024,776.469971
10-09-16,775.554009,785.42138,775.54478,776.859985
10-10-16,776.432029,778.730022,780.890015,776.429993
```

1. Write a Python program to visualize the data from the Dataframe
  - a) Line Chart , b) Bar Graph c) Histogramshow legends and different colours.
2. Read all columns of the dataframe and show it using a multiline plot
3. Read the Open column values from dataframe of each month and show it using a scatter plot
4. Read Open and Close columns values from dataframe of each month and display using the bar chart with different legends and colours
5. Read the High and Low columns values from dataframe of all months and show it using a bar chart
6. Read the Close column values of each month and display using proper labels :
  - a) Histogram to see the most common profit ranges
  - b) BarChart to see the most common profit ranges
  - c) Pie Chart
7. For the Open Columns Data from the dataframe and show it using a Pie chart.