

## INFS 772 Assignment 3 Matplotlib

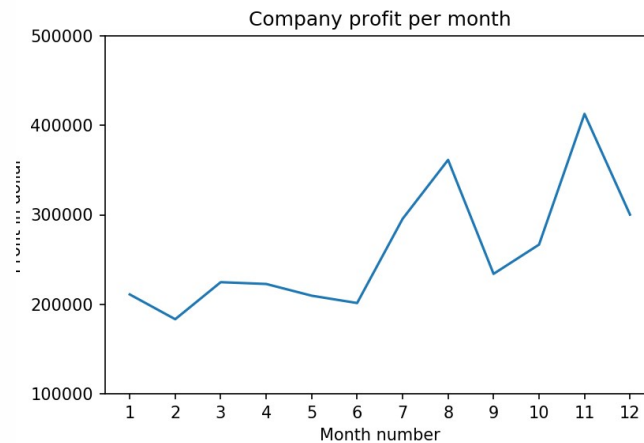
(Data File: company\_sales\_data.csv Total 10 points)

### Exercise 1: Read Total profit of all months and show it using a line plot

Total profit data provided for each month. Generated line plot must include the following properties: –

- X label name = Month Number
- Y label name = Total profit

The line plot graph should look like this.

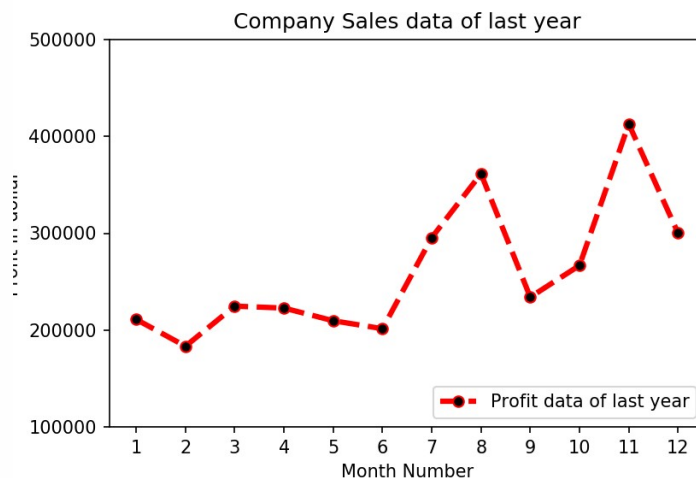


### Exercise 2: Get Total profit of all months and show line plot with the following Style properties

Generated line plot must include following Style properties: –

- Line Style dotted and Line-color should be red
- Show legend at the lower right location.
- X label name = Month Number
- Y label name = Sold units number
- Add a circle marker.
- Line marker color as read
- Line width should be 3

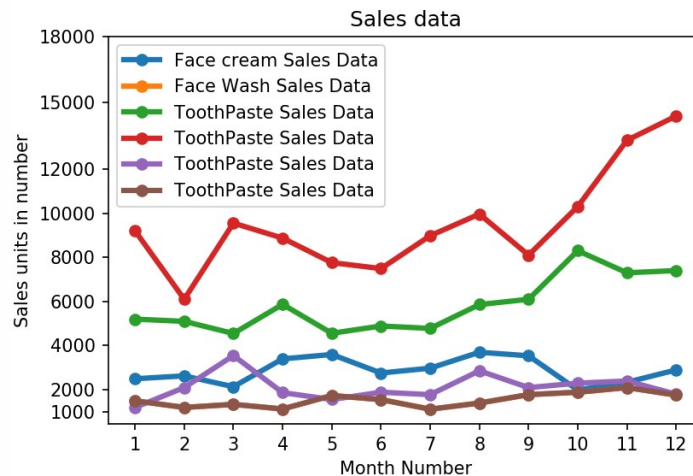
The line plot graph should look like this.



### Exercise 3: Read all product sales data and show it using a multiline plot

Display the number of units sold per month for each product using multiline plots. (i.e., Separate Plotline for each product ).

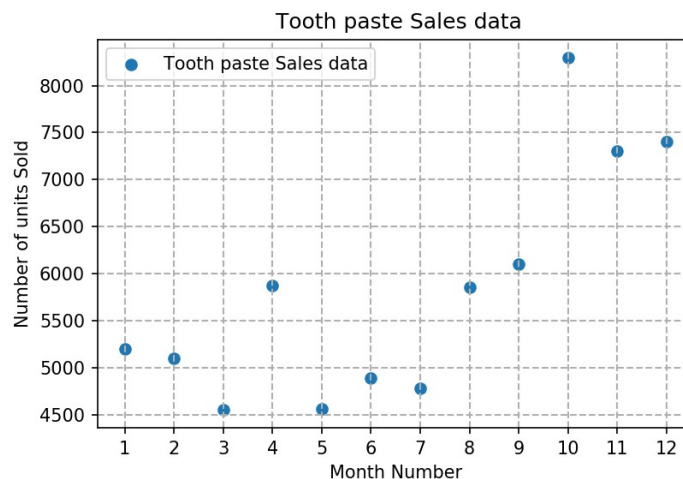
The graph should look like this.



### Exercise 4: Read toothpaste sales data of each month and show it using a scatter plot

Also, add a grid in the plot. gridline style should “-”.

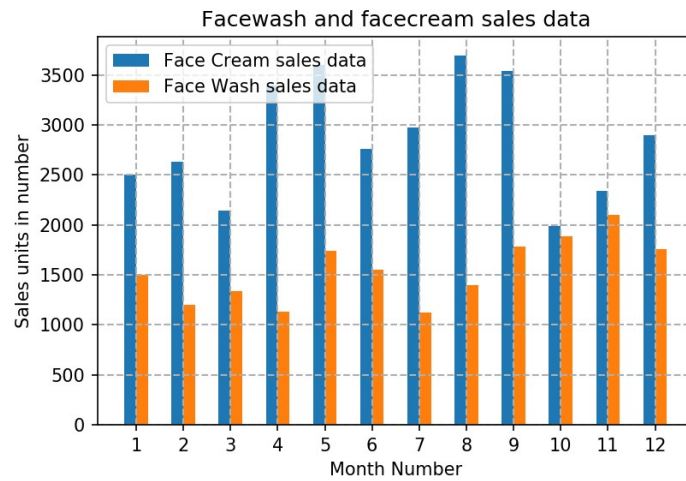
The scatter plot should look like this.



### Exercise 5: Read face cream and facewash product sales data and show it using the bar chart

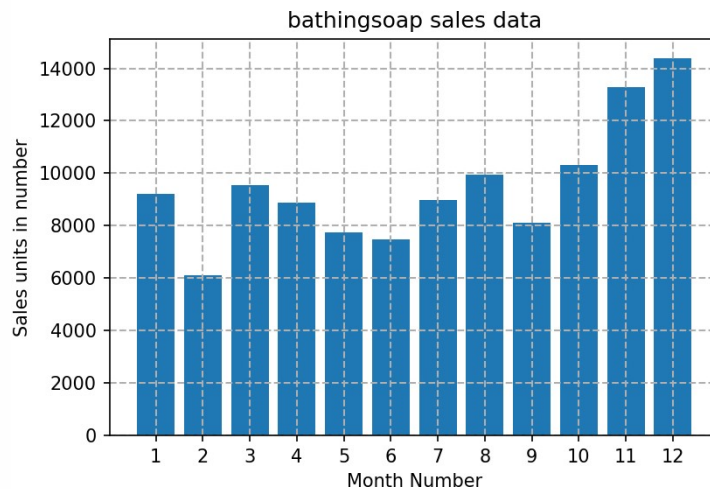
The bar chart should display the number of units sold per month for each product. Add a separate bar for each product in the same chart.

The bar chart should look like this.



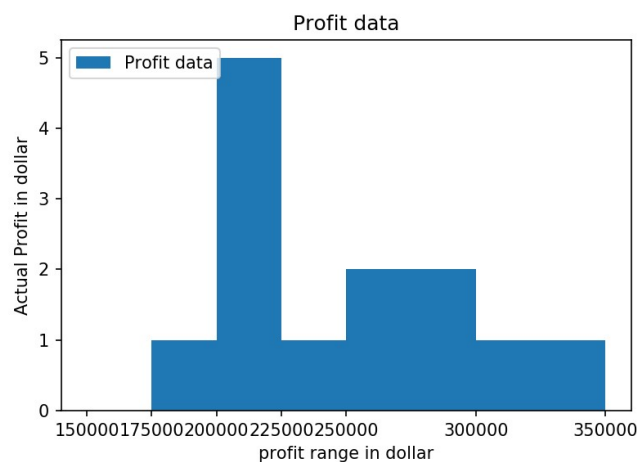
**Exercise 6: Read sales data of bathing soap of all months and show it using a bar chart. Save this plot to your hard disk**

The bar chart should look like this.



**Exercise 7: Read the total profit of each month and show it using the histogram to see most common profit ranges**

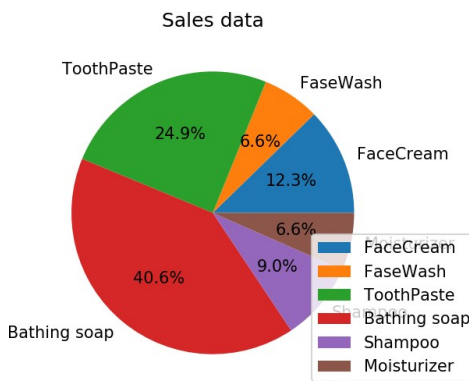
The histogram should look like this.



### Exercise 8: Calculate total sale data for last year for each product and show it using a Pie chart

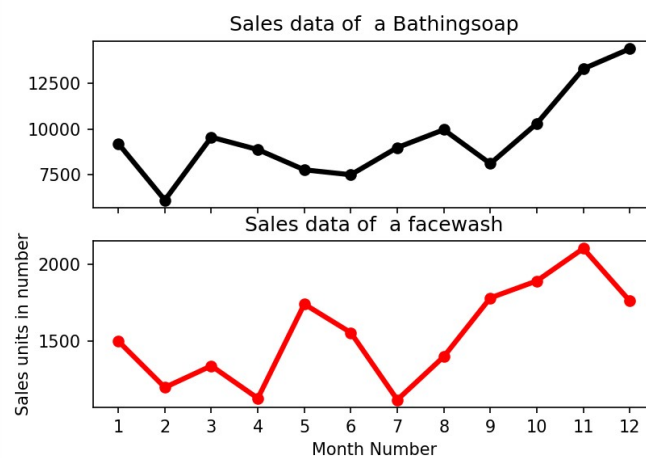
Note: In Pie chart display Number of units sold per year for each product in percentage.

The Pie chart should look like this.



### Exercise 9: Read Bathing soap facewash of all months and display it using the Subplot

The Subplot should look like this.



### Exercise 10: Read all product sales data and show it using the stack plot

The Stack plot should look like this.

