

## Machine Learning Assignment 3 (Part 2)

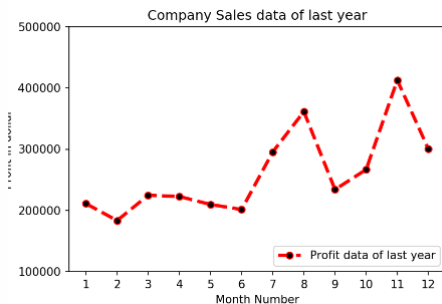
### Assignment Using Pandas and Matplotlib (Part 2) to visualize Company Sales Data.

1. Read Total profit of all months and show it using a line plot.  
(Visualization Style Settings : X label name = Month Number , Y label name = Total profit)

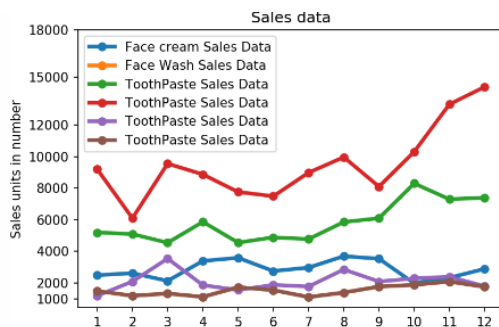
2. Get total profit of all months and show line plot as shown in the figure below

Visualization Style Settings

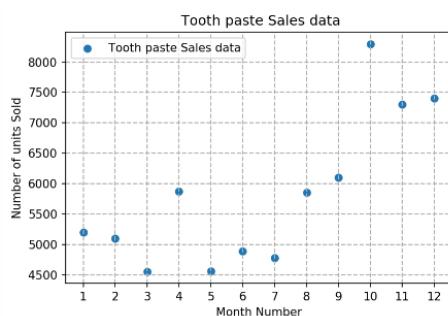
X label name = Month Number , Y label name = Sold units number



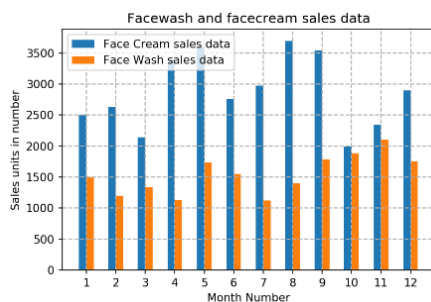
3. Read all product sales data and show it using a multiline plot as shown in the figure below



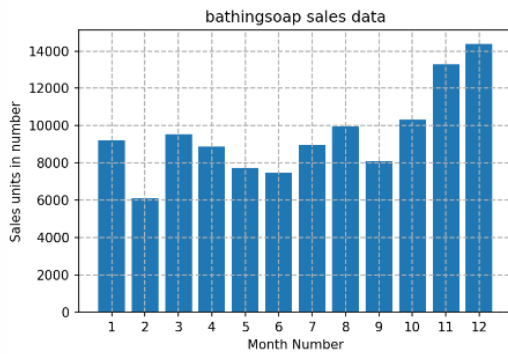
4. Read toothpaste sales data of each month and show it using a scatter plot as shown in the figure below



5. Read face cream and facewash product sales data and show it using the bar chart as shown in the figure below.



6. Read sales data of bathing soap of all months and show it using a bar chart as shown in the figure below



7. Read the total profit 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

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



9. Read Bathing soap facewash of all months and display it using the Subplot



10: Read all product sales data and show it using the Bar Graph with proper labels on X and Y Axis with different colours and appropriate legends