Lab Assignment 7 – Python

1. Write a python program to read a dataset from company sales data.

 a) Read Total profit of all months and show it using a line plot.

 b) Read all product sales data and show it using a multiline plot.

c) Read toothpaste sales data of each month and show it using a scatter plot.
 d) Read sales data of bathing soap of all months and show it using a bar chart.

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

2. Read the weather csv file and plot the heatmap of correlated columns.

3. Create a list with student marks and make the bins for range of marks and plot that using histogram.

4. Create a scatter plot with random integers and decorate them with color maps.

5. Read the iris dataset in seaborn and make the pairplot based on their species.

6. Import csv file using pandas, find correlation and plot heatmap of correlation using seaborn, plot the scatter plot for any two highest correlated columns using matplotlib.

7. Write a python program to and make the following charts using plotly:

• Boxplot of iris data x axis values is sepal-width and y value as sepal-length.

• Gantt chart for A(2023-01-01, 2023-02-28), B(2023-03-05, 2023-04-15), C(2023-02-20, 2023-05-30).

• Sunburst plot, Treemap and Icicle maps for the tips data. Take path as day,sex and value as total-bill.

• Heatmap with metals-wide data.