Lab Statement - 2

1. Consider a subset of attributes in the given dataset and apply the below given visualization plots in any platform of your choice (Microsoft Excel / LibreOffice Calc / Python(preferred) / R).

1. Bar/Column Chart
2. Pie Chart
3. Doughnut chart
4. Pareto Chart
5. Scatter plot
6. Line Chart
7. Radar Chart
8. Area Chart
9. Histogram

Dataset: IRIS Dataset (https://www.kaggle.com/datasets/uciml/iris)

It includes three iris species with 50 samples each as well as some properties about each flower. One flower species is linearly separable from the other two, but the other two are not linearly separable from each other.

The columns in this dataset are:

- Id
- SepalLengthCm
- SepalWidthCm
- PetalLengthCm
- PetalWidthCm
- Species

2. Given two arrays of numeric values, identify the suitable visualization mechanisms like Heat Maps to draw relationship between the given two sets. Also extend the same for the IRIS dataset for possible attribute subset of your choice.

3. Explore the usage of correlogram using the in-built packages for IRIS dataset of your choice and list the inferences drawn from the plots.

4. Test Drive the hierarchical data visualization techniques like TreeMap for the below given data.