

# DATA VISUALIZATION USING PYPLOT

## ASSIGNMENTS

Q.1 What is matplotlib?

Q.2 Which function is used to show the graph?

Q.3 Write a python program to display a bar graph of the number of students in a class ,Use different color for each bar.

Sample Data

Class : I,II,III,IV,V,VI,VII,VIII

Strengths : 45,56,34,44,39,42,43,52

Q.4 Write a python program using matplotlib.pyplot library to create a bar graph with following list values

x = [2,4,6,8,10]

y=[3,9,11,2,6]

Q.5 Name the various methods used with pyplot object.

Q.6 How is pie chart different from a bar graph?

Q.7 Write a python program to draw a line with suitable label in the x axis and y axis and a title.

Q.8 Write a python program to plot two/more lines and set the line markers.

Q.9 Write notes on following functions – shape(),legend()

Q.10 What is data visualization ? what is its significance?

Q.11 Name some commonly used chart types

Q.12 Compare bar() and bars() functions

Q.13 Write a Python program to plot two or more lines with legends, different widths and colors.

Q.14 The table below shows daily temperatures for Shimla City, recorded for 6 days, in degrees Fahrenheit.

Temperatures In NY City

Day Temperature

1 43° F

2 53° F

3 50° F

4 57° F

5 59° F

6 67° F

Write python program to draw line chart of temperature

Q.15 Here is how many students got each grade in the recent test:

A B C D

4 12 10 2

Write python program to draw pie chart of grades

Q.16 Imagine you survey your friends to find the kind of movie they like best:

Table: Favorite Type of Movie

Comedy Action Romance Drama SciFi

4 5 6 1 4

Write python program to draw pie chart of above data