## **Lab 7 Assignment**

### (1) Create a following dataframe:

E_id	Age
1	30
2	25
3	22
4	20
5	35
6	40
7	45
8	43
9	55
10	39

- i. Apply 5 point summary concept on the above data.
- ii. Apply sorting and also find maximum and minimum for the above data.

## (2) Crate data frame and perform the following:

Student_Name	Marks
Krishna	75
Madhav	70
Gopi	65
Kruti	50
Mohan	90
Shyam	80
Priya	55
Radhika	85

- i. Generate a Pie chart for Marks and save it.
- ii. Use Student name for generating legends.
- iii. The chart should include title for the chart.
- iv. Each segment of chart should be in different color and border should be red.

# (3) Create a data frame: Revenue

Profit	Month
20	January
30	February
35	March
45	April
50	May
75	June
90	July
95	August

- 1. Generate a Bar chart for profit and save the chart.
- 2. The names of the months should appear on X-axis.
- 3. Give proper labels to X-axis and Y-axis.
- 4. The chart should include title for the chart.

- 5. Each bar of chart should be in different color.
- 6. The border of the bar should be yellow.

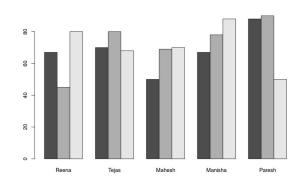
## (4) Consider built-in dataset: mtcars and perform following:

- i. Generate Line chart on fields weight and milage.
- ii. Give title= Weight vs Milage and X-axis and Y-axis labels
- iii. Line should be displayed with plotting points and with any one color.

### (5) Import the given excel sheet: Student Data

Rollno	Name	Flutter	R	ML	
	1 Reena		67	45	80
	2 Tejas		70	80	68
	3 Mahesh		50	69	70
	4 Manisha		67	78	88
	5 Paresh		88	90	50

- i. Calculate average of three subject and round up average marks with 2 digitis after decimal point.
- ii. Generate pie chart with average marks and take student name as a label.
- iii. Give proper title and color to chart. Ues rainbow method for color.
- iv. Generate Bar chart for Name and Three subjects marks like:



v. Give proper title to graph and color according subjects (3 color for 3 subject)

### (6) Use built-in dataset: mtcars and perform following:

- i. plot a boxplot for mileage per gallon on the basis of number of cylinders.
- ii. Give proper labels, title and color to graph.