College of Engineering Pune
Probability and Statistics for Engineers
F.Y.B. Tech. Even Semester (Computer Branch) 2023-24
Assignment on R software and R-Studio
2.DATA VISUALIZATION USING R

---

1. Use the moviesData. Create a histogram of the object named imdb_num_votes in this file
2. Create a pie chart of the object mpaa_rating and save the plot.
3. Read the file moviesData.csv Create a bar chart of critics_score for the first 10 movies.
4. Create a scatter plot of imdb_rating and imdb_num_votes to see their relation. Also save the plot.
5. Using the mtcars dataset create a barplot using cyl variable.
6. Represent the following data by pie diagram

Commodity	Expenditure
Food	300
Rent	200
Clothes	125
Education	110
Savings	90
Miscellaneous	75

7.Represent the following data by subdivided bar diagram.

Cost Per scooter(₹)	2002	2003	2004
Raw materials	21600	26000	27000
labour	5400	7000	8100
Direct expenses	3600	3000	3500
Office expenses	1800	2000	2700
Factory expenses	3600	2000	3600

8.The following frequency distribution table gives age distribution gives the age of drivers who were at fault in accidents during a 1-week period in a city.

Age	f
18-20	7
20-25	12
25-30	28
30-40	14
40-50	8
50-60	3
60-70	2

Draw a histogram

9.Create a heatmap using LifeCycleSavings dataset

10.Create a heatmap using following datasets.

a).Write a code to remove row dendrogram

b).Write a code to remove column dendrograms

# heat map example data set				
# 12/08/13 sr				
	var1	var2	var3	var4
measurement1	0.094	0.668	0.4153	0.4613
measurement2	0.1138	-0.3847	0.2671	0.1529
measurement3	0.1893	0.3303	0.5821	0.2632
measurement4	-0.0102	-0.4259	-0.5967	0.18
measurement5	0.1587	0.2948	0.153	-0.2208
measurement6	-0.4558	0.2244	0.6619	0.0457
measurement7	-0.6241	-0.3119	0.3642	0.2003
measurement8	-0.227	0.499	0.3067	0.3289
measurement9	0.7365	-0.0872	-0.069	-0.4252
measurement10	0.9761	0.4355	0.8663	0.8107

————THE END————-