Pandit Deendayal Energy University
School of Technology

Data Mining Lab
B.Tech-Computer Science & Engineering (Sem-V)
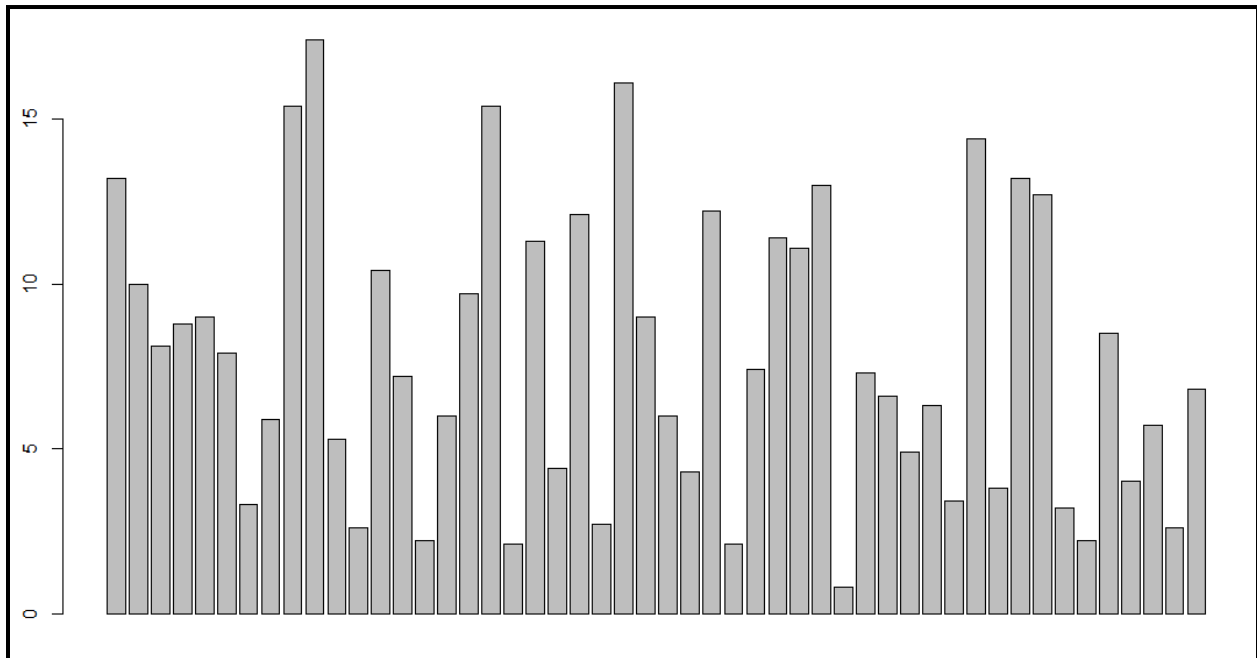
PATEL VEDANT H.
19BCP138
DIVISION – 2

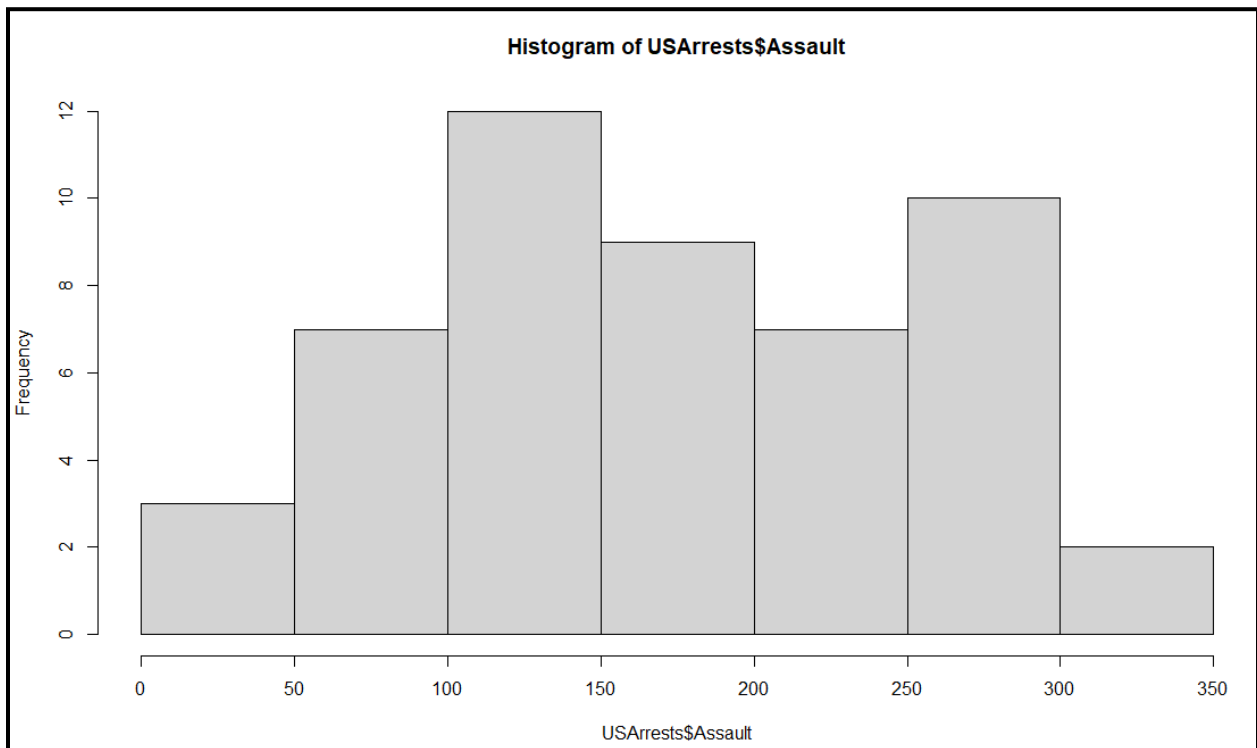**Lab 1 Assignment:** Simple R Programming

AIM: Implement menu option for users and plot data in different types of graph from any dataset.

❖ **CODE:**

```
R RStudio
File  Edit  Code  View  Plots  Session  Build  Debug  Profile  Tools  Help

  r_19BCP138_vedant.r

 1  data("USArrests")
 2
 3  info <- "Dataset shows the statistics of Arrests of US states in 1973"
 4
 5  graphInfo <- "
 6  Select the Graph to display information
 7  1. BarPlot
 8  2. Histogram
 9  3. Piechart
10  4. LineGraphs
11  5. Scatterplots
12  6. Exit
13  "
14  cat(info)
15  cat(graphInfo)
16
17  repeat{
18    cat(graphInfo)
19
20    switch(
21      var <- as.integer(readline(prompt = "Enter Choice: ")),
22      barplot(USArrests$Murder),
23      hist(USArrests$Assault),
24      pie(USArrests$UrbanPop, radius = 1.2),
25      plot(USArrests$Rape, type = "o"),
26      plot(USArrests$UrbanPop),
27      break
28    )
29  }
30  
31  
```

❖ **OUTPUT:**

1. Menu Options:

```
Select the Graph to display information
1. BarPlot
2. Histogram
3. Piechart
4. LineGraphs
5. Scatterplots
6. Exit
Enter Choice: |
```

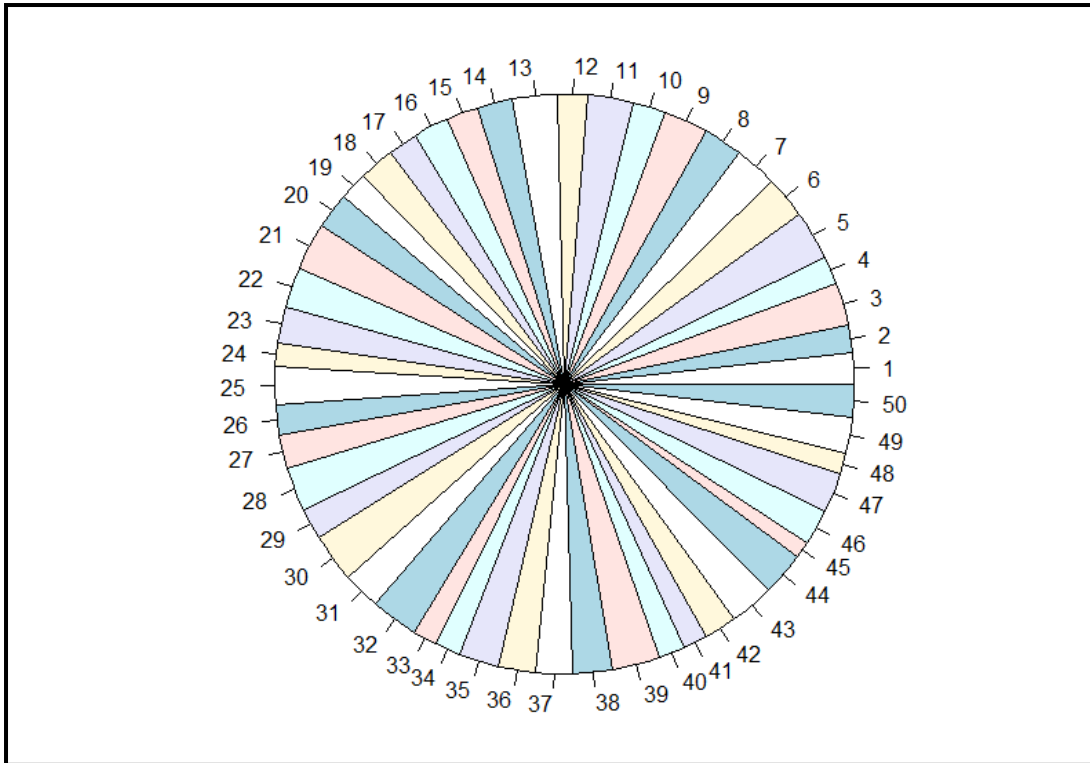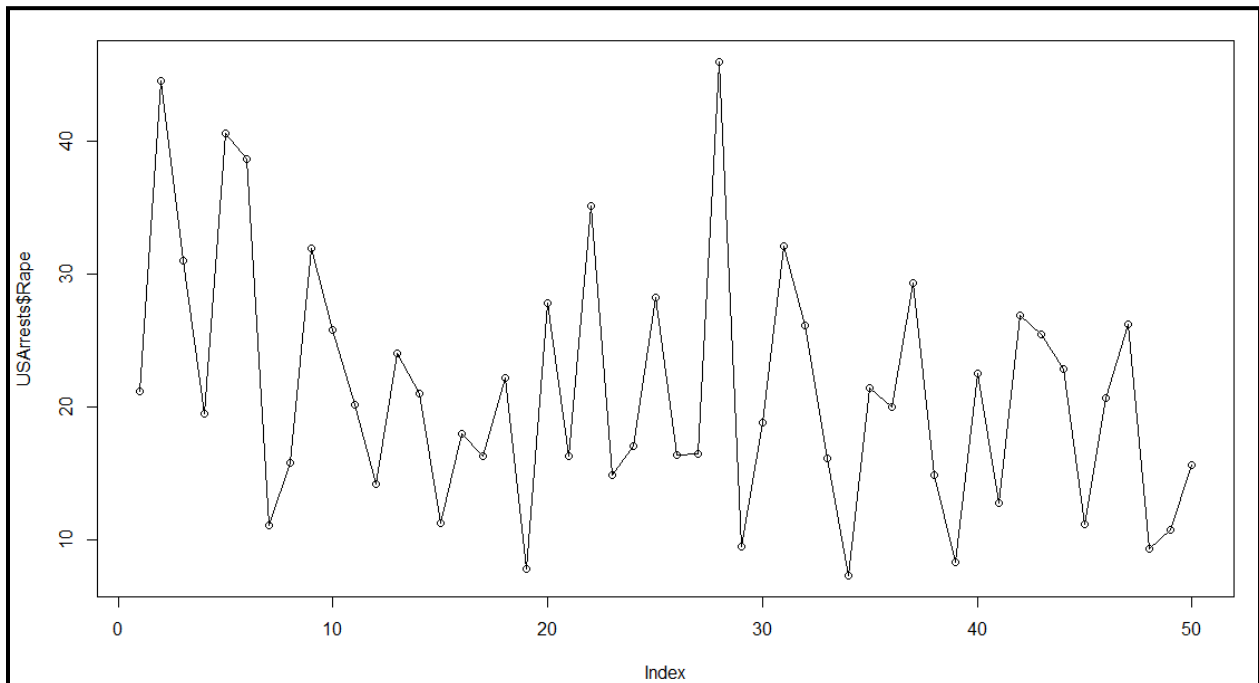## 2. BarPlot:

3. Histogram:

4. PieChart:

5. LineCharts:

6. ScatterPlots: