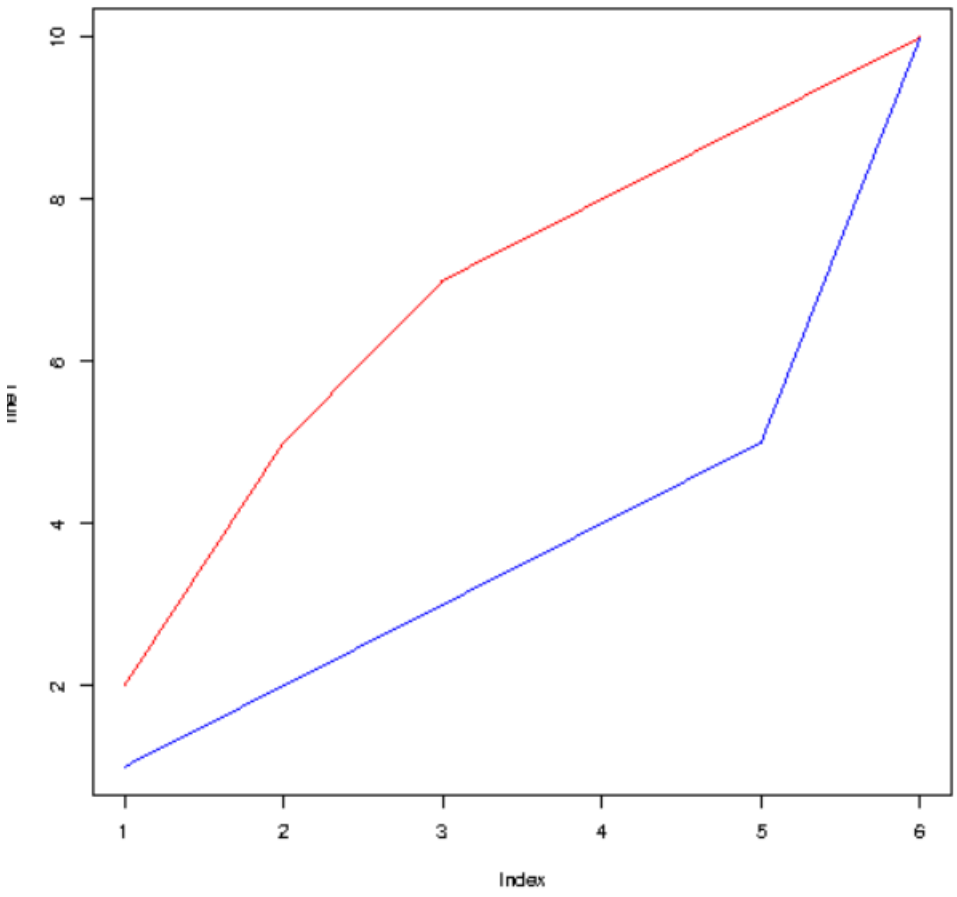
Assignment 12

Roll No : BCOB129

✓ R Programming

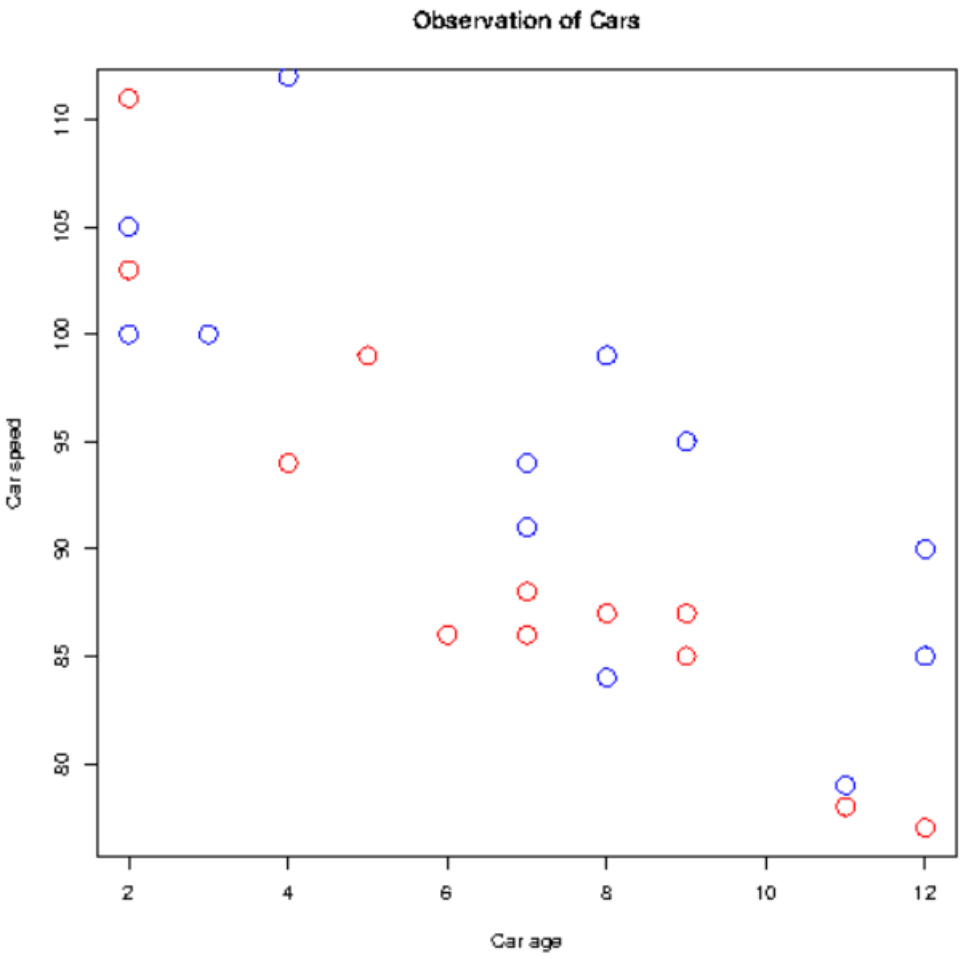
1) Line Plot

```
bitmap(file="out.png")

line1 <- c(1,2,3,4,5,10)
line2 <- c(2,5,7,8,9,10)

plot(line1, type = "l", col = "blue")
lines(line2, type="l", col = "red")
```



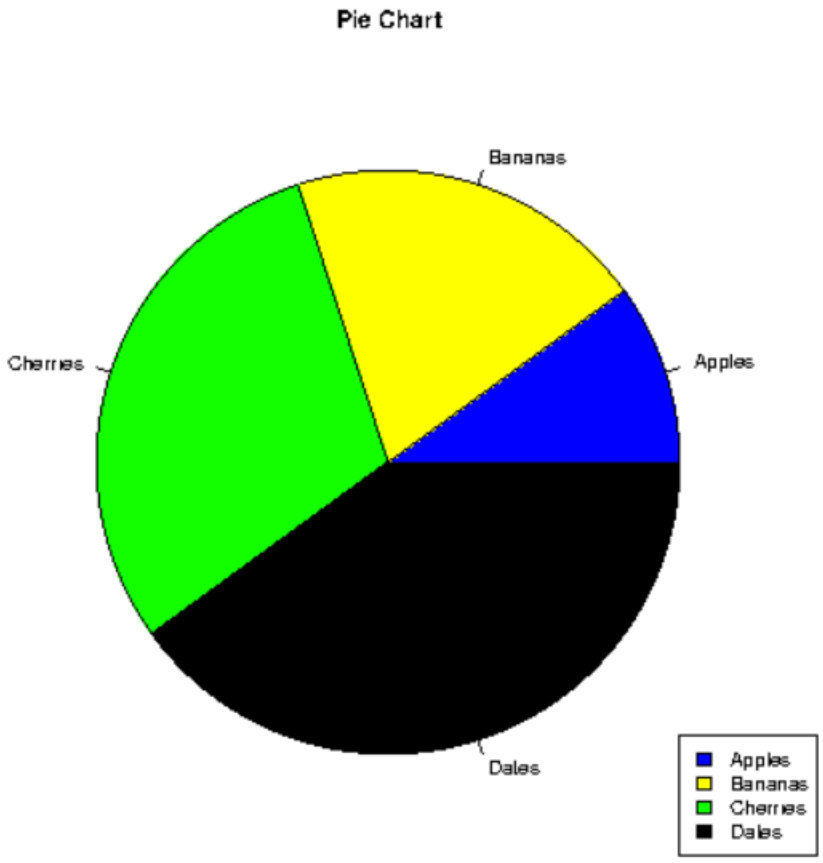
2)Bubble Plot

```
bitmap(file="out.png")

x1 <- c(5,7,8,7,2,2,9,4,11,12,9,6)
y1 <- c(99,86,87,88,111,103,87,94,78,77,85,86)

x2 <- c(2,2,8,1,15,8,12,9,7,3,11,4,7,14,12)
y2 <- c(100,105,84,105,90,99,90,95,94,100,79,112,91,80,85)

plot(x1, y1, main="Observation of Cars", xlab="Car age", ylab="Car speed", col="red",
cex=2)
points(x2, y2, col="blue", cex=2)
```



3)Pie Plot

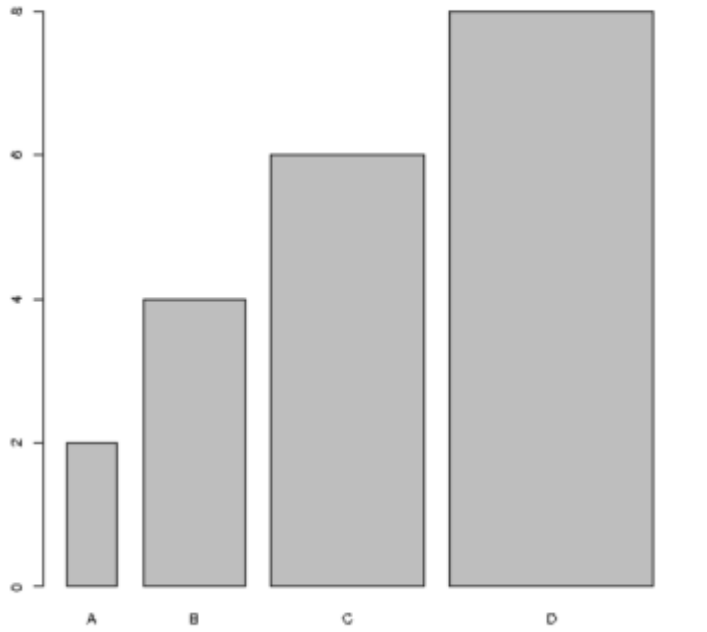
```
bitmap(file="out.png")
x <- c(10,20,30,40)
mylabel <- c("Apples", "Bananas", "Cherries", "Dates")
colors <- c("blue", "yellow", "green", "black")
pie(x, label = mylabel, main = "Pie Chart", col = colors)
legend("bottomright", mylabel, fill = colors)
```



4)Bar Plot

-Horizontal

```
bitmap(file="out.png")

x <- c("A", "B", "C", "D")
y <- c(2, 4, 6, 8)

barplot(y, names.arg = x, width = c(1,2,3,4))
```



-Vertical

```
bitmap(file="out.png")

x <- c("A", "B", "C", "D")
y <- c(2, 4, 6, 8)

barplot(y, names.arg = x, horiz = TRUE)
```