Lab 05

IT24102544

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Exercise

1.

```
setwd("C:\\Users\\IT24102544\\Desktop\\IT24102544")
getwd()

Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE)
print(Delivery_Times)
```
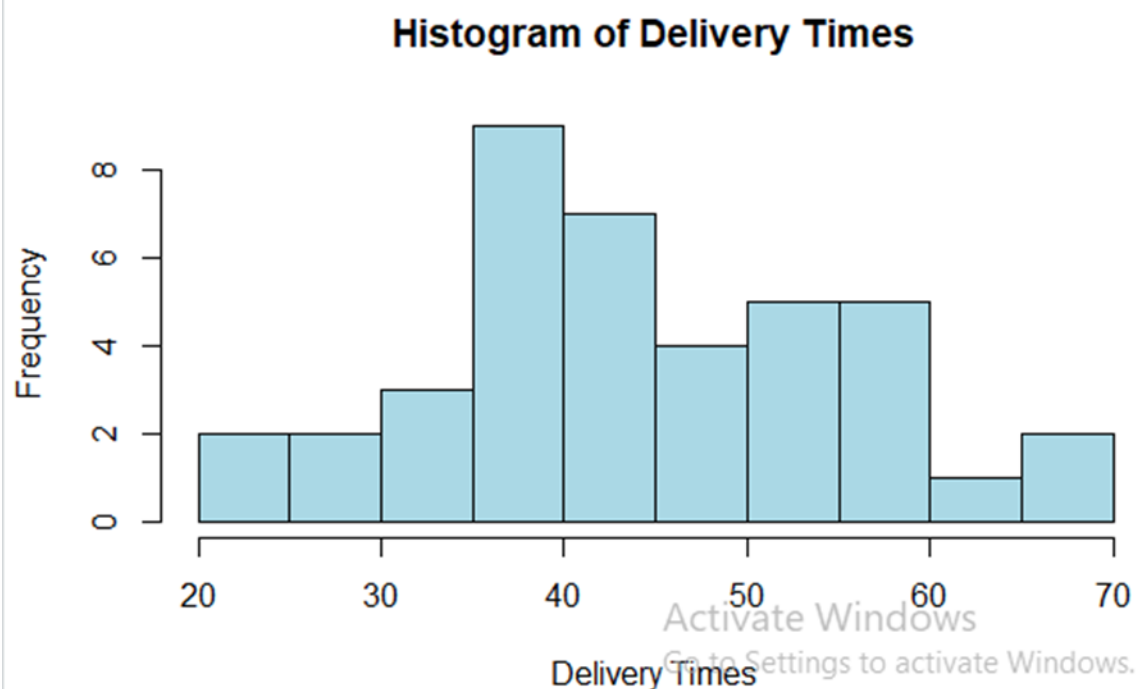
```
> setwd("C:\\Users\\IT24102544\\Desktop\\IT24102544")
> getwd()
[1] "C:/Users/IT24102544/Desktop/IT24102544"
>
> Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE)
> print(Delivery_Times)
   Delivery_Time_.minutes.
1                       34
2                       54
3                       47
4                       29
5                       39
6                       61
7                       20
8                       40
9                       57
10                      36
11                      38
12                      44
13                      59
14                      38
15                      40
16                      40
17                      67
18                      66
19                      55
20                      48
```

21	52
22	59
23	35
24	56
25	32
26	38
27	54
28	30
29	43
30	36
31	42
32	20
33	27
34	38
35	54
36	43
37	45
38	51
39	36
40	47

2.

```r
hist(Delivery_Times$Delivery,
    breaks = seq(20, 70, by = 5),
    right = FALSE,
    main = "Histogram of Delivery Times",
    xlab = "Delivery Times",
    ylab = "Frequency",
    col = "lightblue",
    border = "black")
```

```r
> hist(Delivery_Times$Delivery,
+       breaks = seq(20, 70, by = 5),
+       right = FALSE,
+       main = "Histogram of Delivery Times",
+       xlab = "Delivery Times",
+       ylab = "Frequency",
+       col = "lightblue",
+       border = "black")
```

Histogram of Delivery Times

3.

```
hist_data <- hist(Delivery_Times$Delivery,
                  breaks = seq(20, 70, by = 5),
                  right = FALSE,
                  plot = FALSE)


cumulative_freq <- cumsum(hist_data$counts)


plot(hist_data$mids, cumulative_freq,
     type = "o",
     main = "Cumulative Frequency Polygon (Ogive)",
     xlab = "Delivery Times",
     ylab = "Cumulative Frequency",
     pch = 16,
     col = "blue")
```

```
> hist_data <- hist(Delivery_Times$Delivery,
+                   breaks = seq(20, 70, by = 5),
+                   right = FALSE,
+                   plot = FALSE)
>
>
> cumulative_freq <- cumsum(hist_data$counts)
>
>
> plot(hist_data$mids, cumulative_freq,
+      type = "o",
+      main = "Cumulative Frequency Polygon (Ogive)",
+      xlab = "Delivery Times",
+      ylab = "Cumulative Frequency",
+      pch = 16,
+      col = "blue")
```

Cumulative Frequency Polygon (Ogive)