

IT24100167

PS Lab sheet 05

```
getwd()
setwd("C:\\Users\\thisu\\OneDrive\\Desktop\\IT24100167")
getwd()
```

#2

```
Delivery_Times<-read.table("Exercise.txt", header = TRUE)
print(Delivery_Times)
```

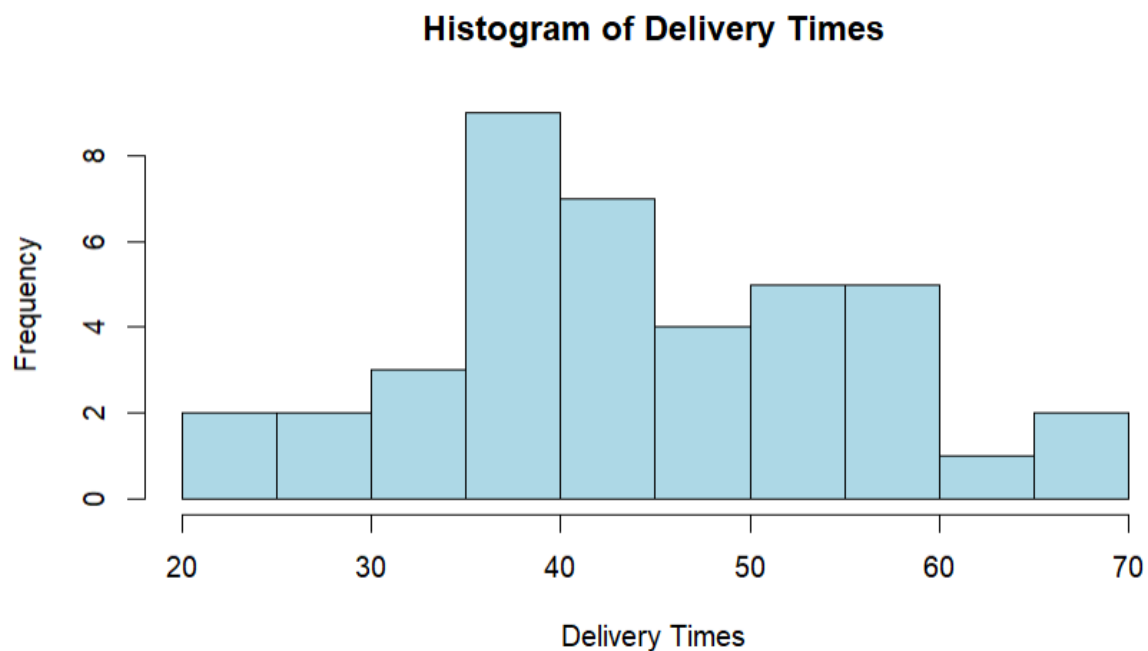
```
> #2
> Delivery_Times<-read.table("Exercise.txt", header = TRUE)
> print(Delivery_Times)
  Delivery_Time_.minutes.
1                      34
2                      54
3                      47
4                      29
5                      39
6                      61
7                      20
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
```

#3

```
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")
```

> #3

```
> 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")  
> |
```



#4

```
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")
```

```
> #4  
> 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")  
>
```

