IT24102542

Ramanayaka O.R.

Lab 5

Exercise

01.

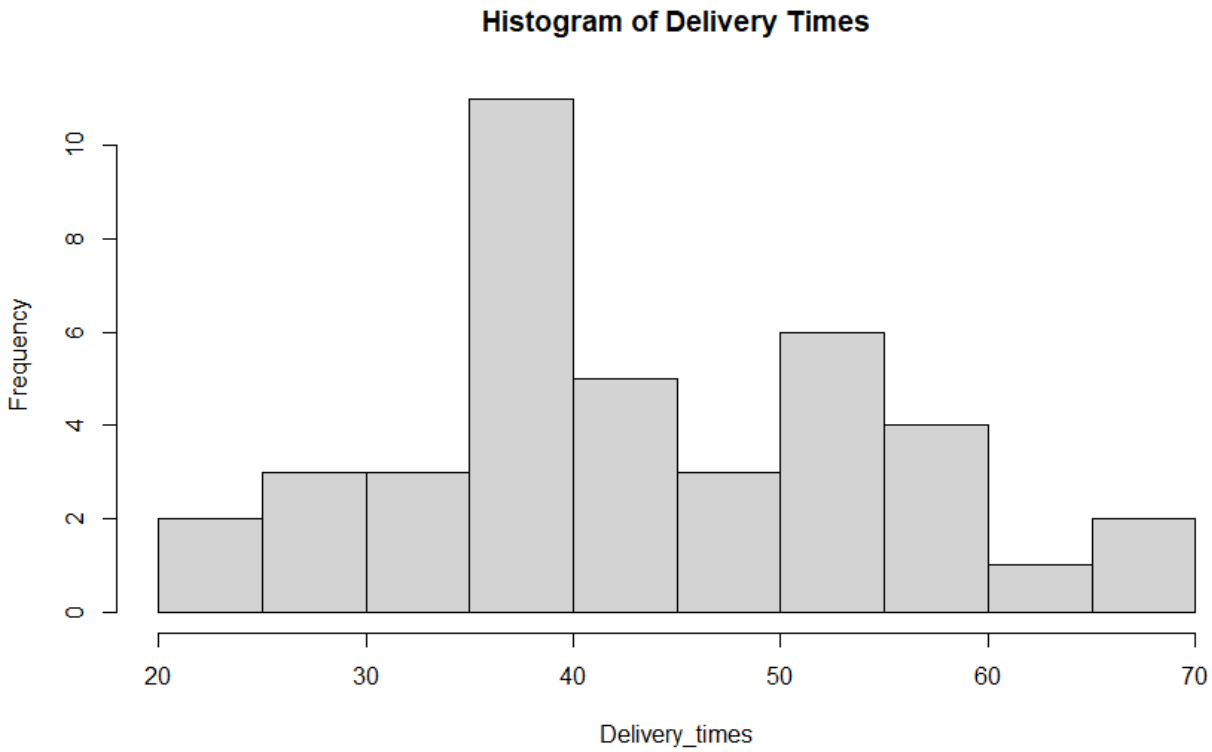
```
setwd("C:\\Users\\Ovin\\Desktop\\IT24102542_PS_Lab05")
getwd()
Delivery_times <- read.table("Exercise - Lab 05.txt",header=TRUE)
print(Delivery_times)

```

```
> setwd("C:\\Users\\Ovin\\Desktop\\IT24102542_PS_Lab05")
> getwd()
[1] "C:/Users/Ovin/Desktop/IT24102542_PS_Lab05"
>
> 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
```

02.

```r
#Q2
hist(Delivery_times$Delivery, breaks=seq(20,70,by=5),right=TRUE,
main="Histogram of Delivery Times",xlab="Delivery_times",ylab="Frequency")
```

```
> #Q2
> hist(Delivery_times$Delivery, breaks=seq(20,70,by=5),right=TRUE,
+ main="Histogram of Delivery Times",xlab="Delivery_times",ylab="Frequency")
>
```



03.

The distribution of delivery times is approximately symmetric and unimodel, with the peak around 35-40 minutes. It is not strogly skewed.

04.

```r
Delivery_times_freq <- hist(Delivery_times$Delivery,
                            breaks= seq(20,70,by=5),
                            right=TRUE,
                            plot= FALSE)
cumulative_freq <- cumsum(Delivery_times_freq$counts)

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

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