IT24102555-Weerathunga B.A

1.

```
    1  setwd("C:\\Users\\IT24102555\\Desktop\\IT24102555-Lab05")
    2  getwd()
    3
    4  Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE)
    5  print(Delivery_Times)
    6
    7
```
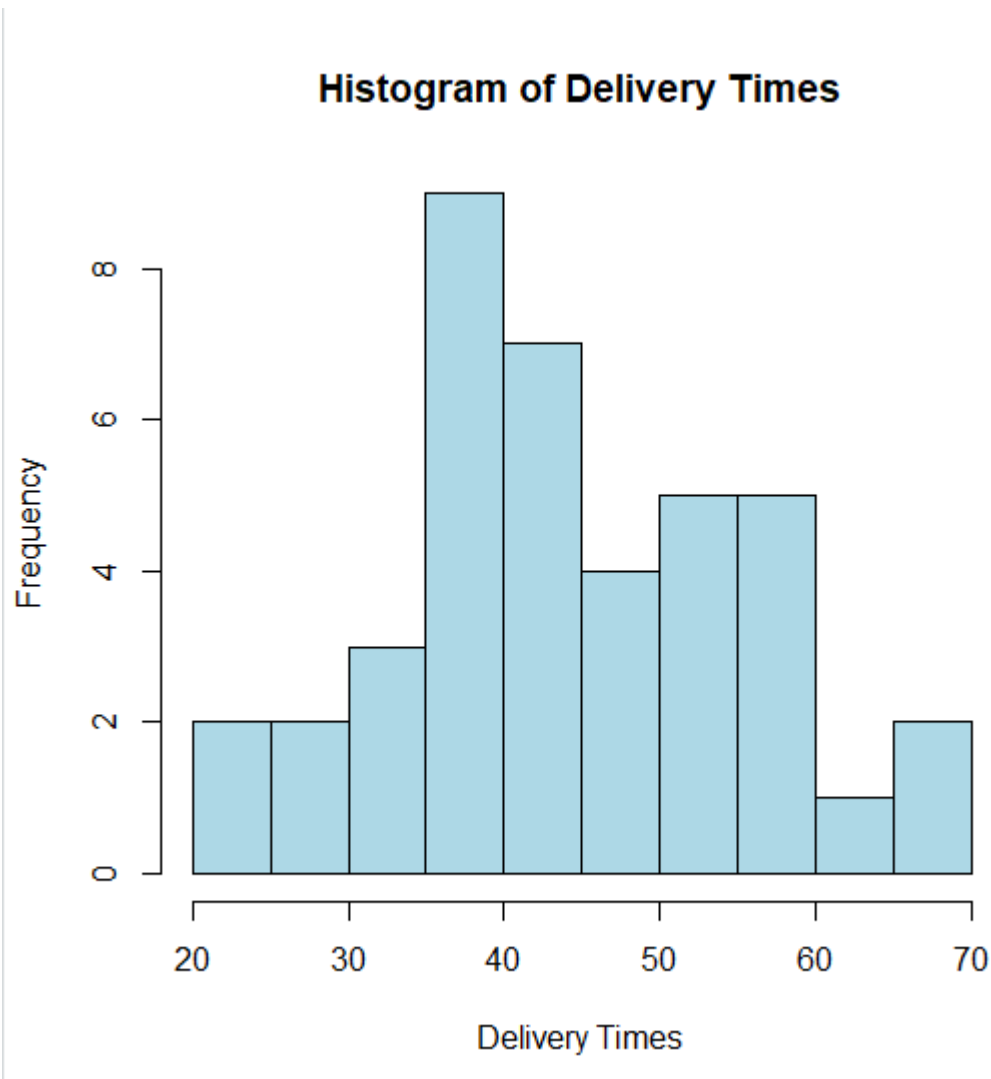
```
> setwd("C:\\Users\\IT24100118\\Desktop\\IT24100118")
> getwd()
[1] "C:/Users/IT24100118/Desktop/IT24100118"
> Delivery_Times<-read.table("Exercise - Lab 05.txt",header
=TRUE)

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
```

```
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")
```

```
> 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.This is a Right-skewed distribution.

```r
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")
```

```r
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)