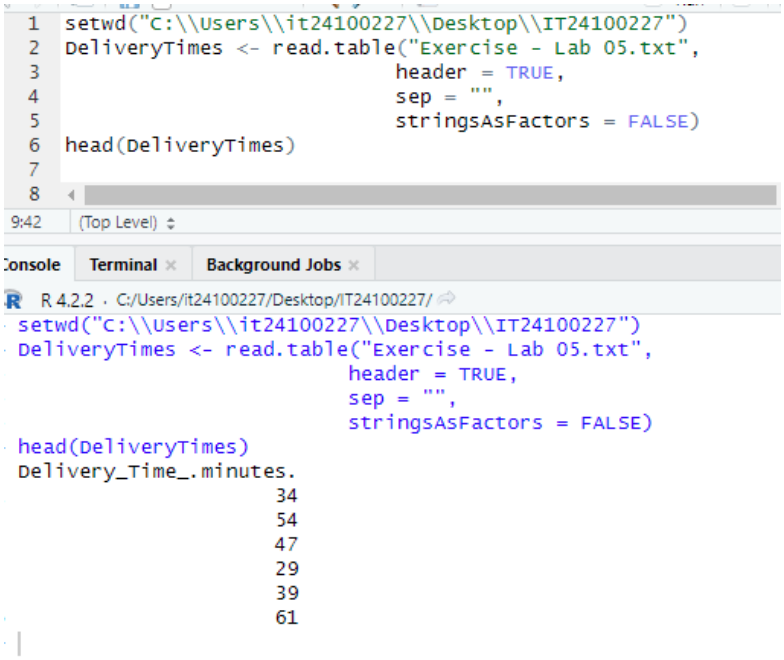
IT24100227

Hettiarachchi B.D

Lab-05

01.

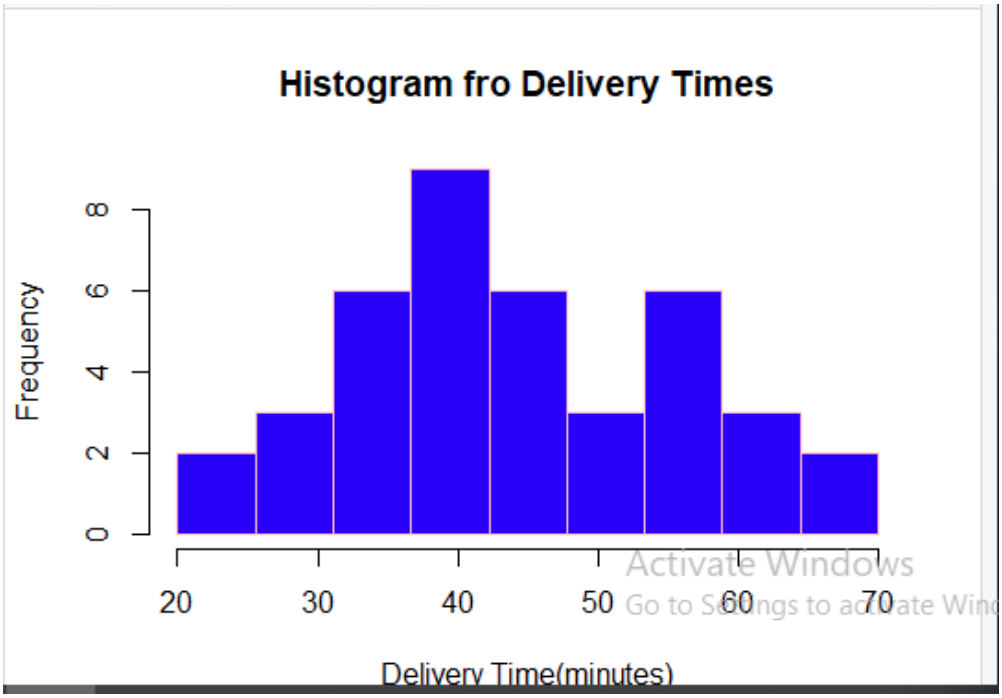


```
setwd("C:\\Users\\it24100227\\Desktop\\IT24100227")
DeliveryTimes <- read.table("Exercise - Lab 05.txt",
                            header = TRUE,
                            sep = "",
                            stringsAsFactors = FALSE)
head(DeliveryTimes)
```

```
9:42  (Top Level)

Console  Terminal  Background Jobs

R 4.2.2 · C:/Users/it24100227/Desktop/IT24100227/

> setwd("C:\\Users\\it24100227\\Desktop\\IT24100227")
> DeliveryTimes <- read.table("Exercise - Lab 05.txt",
+                             header = TRUE,
+                             sep = "",
+                             stringsAsFactors = FALSE)
>
> head(DeliveryTimes)
  Delivery_Time_.minutes.
1                      34
2                      54
3                      47
4                      29
5                      39
6                      61
```

02.

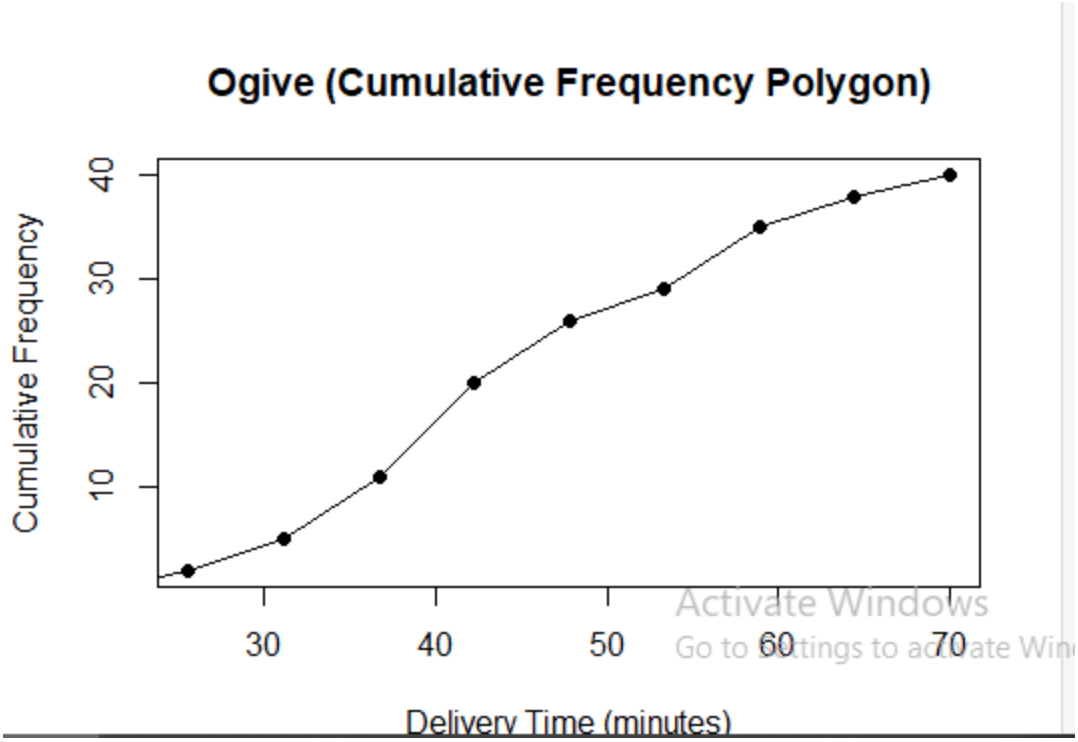
```
names(DeliveryTimes) <- c("DeliveryTime")
hist(DeliveryTimes$DeliveryTime,
     main = "Histogram fro Delivery Times",
     xlab = "Delivery Time(minutes)",
     breaks = seq(20, 70, length.out = 10),
     right = FALSE,
     col = "blue",
     border = "pink")
```



03.This distribution is approximately symmetric: Because left and ride sides center are fairly balanced. Similar to normal distributionand not extreme outliers or long tails and also its perfectly smooth because of the small sample.

04.

```
h <- hist(x, breaks = seq(20, 70, length.out = 10), right = FALSE, pl
cf <- cumsum(h$counts)


plot(h$breaks[-1], cf,
     type = "o",
     main = "Ogive (Cumulative Frequency Polygon)",
     xlab = "Delivery Time (minutes)",
     ylab = "Cumulative Frequency",
     pch = 16
)

points(h$breaks[1], 0, pch = 16)


lines(c(h$breaks[1], h$breaks[-1]), c(0, cf))
```


Ogive (Cumulative Frequency Polygon)
Cumulative Frequency
10
20
30
40
30
40
50
60
70
Delivery Time (minutes)
Activate Windows
Go to Settings to activate Win