

IT24100623

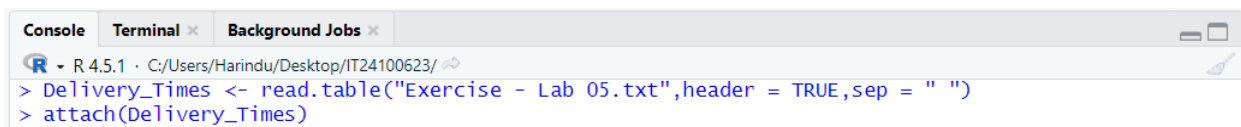
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Module - PS

Lab 05

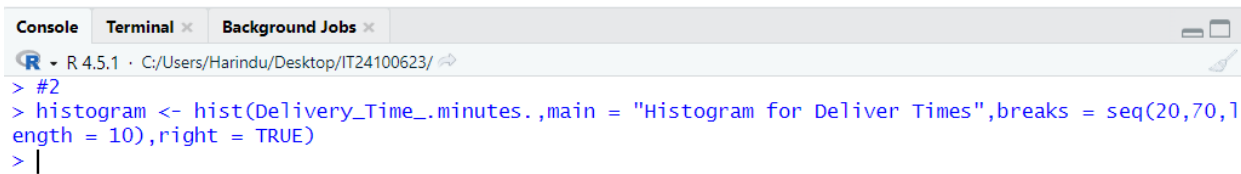
## Exercise

1.

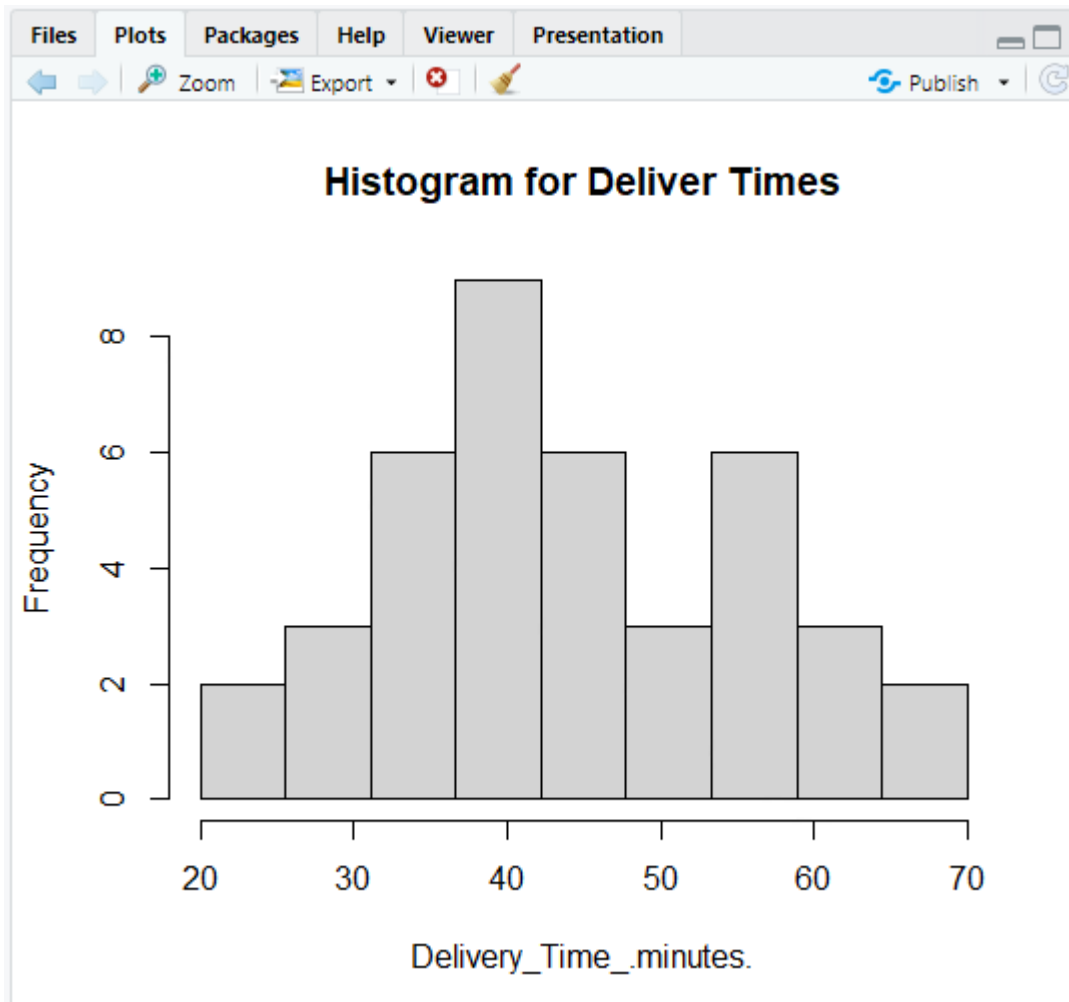
A screenshot of the RStudio console window. The title bar shows 'Console', 'Terminal', and 'Background Jobs'. The console text shows the R version 'R 4.5.1' and the file path 'C:/Users/Harindu/Desktop/IT24100623/'. The command entered is '> Delivery\_Times <- read.table("Exercise - Lab 05.txt",header = TRUE,sep = " ")' followed by '> attach(Delivery\_Times)' on the next line.

```
R 4.5.1 · C:/Users/Harindu/Desktop/IT24100623/
> Delivery_Times <- read.table("Exercise - Lab 05.txt",header = TRUE,sep = " ")
> attach(Delivery_Times)
```

2.

A screenshot of the RStudio console window. The title bar shows 'Console', 'Terminal', and 'Background Jobs'. The console text shows the R version 'R 4.5.1' and the file path 'C:/Users/Harindu/Desktop/IT24100623/'. The command entered is '> #2' followed by '> histogram <- hist(Delivery\_Time\_.minutes.,main = "Histogram for Deliver Times",breaks = seq(20,70,length = 10),right = TRUE)' and a cursor on the next line.

```
R 4.5.1 · C:/Users/Harindu/Desktop/IT24100623/
> #2
> histogram <- hist(Delivery_Time_.minutes.,main = "Histogram for Deliver Times",breaks = seq(20,70,
length = 10),right = TRUE)
> |
```



3.

```
#3
#Frequency is increasing from the begining and it peaks at 40
#After 40, Frequency is decreased till 50
#At 50, frequency is suddenly increased
#After 50s, frequency is again decreased
```

4.

```
Console Terminal Background Jobs
R 4.5.1 · C:/Users/Harindu/Desktop/IT24100623/
>
> plot(breaks,new,type = 'l', main = "Cumulative Frequency Polygon for Deliver Times",xlab = "Deliver Times",ylab = "Cumulative Frequency",ylim = c(0,max(cum.freq)))
> cbind(upper = breaks, cumfreq = new)
      upper cumfreq
[1,]    20      0
[2,]    26      2
[3,]    31      5
[4,]    37     11
[5,]    42     20
[6,]    48     26
[7,]    53     29
[8,]    59     35
[9,]    64     38
[10,]   70     40
> |
```

