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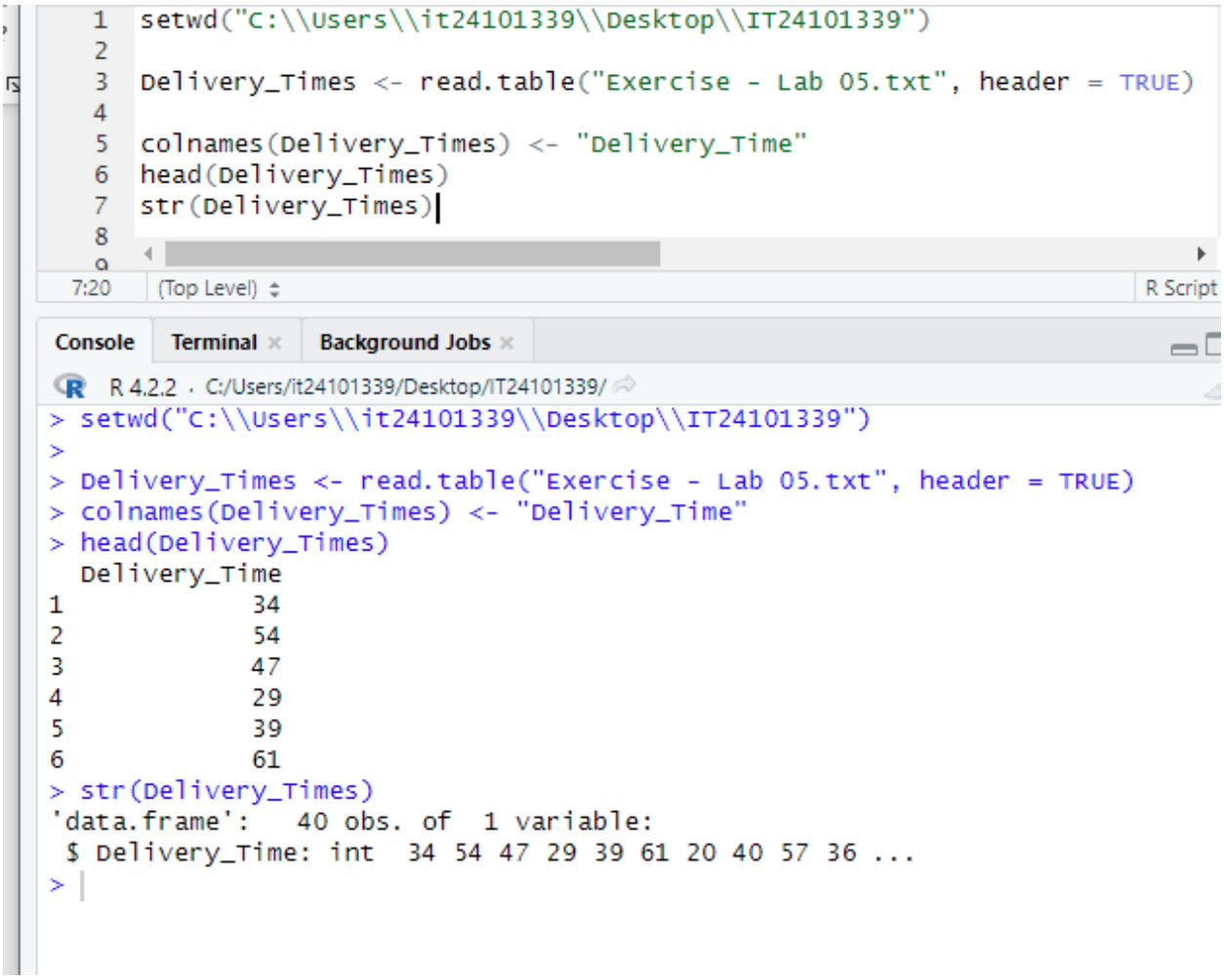
PS Lab 5



```
 9
10 breaks <- seq(20, 70, length.out = 10)
11 hist(Delivery_Times$Delivery_Time,right = FALSE,breaks = breaks,main =
12
13
14
```

12:1 (Top Level) R Script

Console Terminal × Background Jobs ×

R 4.2.2 · C:/Users/it24101339/Desktop/IT24101339/

```
> setwd("C:\\Users\\it24101339\\Desktop\\IT24101339")
>
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
> colnames(Delivery_Times) <- "Delivery_Time"
> head(Delivery_Times)
  Delivery_Time
1            34
2            54
3            47
4            29
5            39
6            61
> str(Delivery_Times)
'data.frame':   40 obs. of  1 variable:
 $ Delivery_Time: int  34 54 47 29 39 61 20 40 57 36 ...
> breaks <- seq(20, 70, length.out = 10)
> hist(Delivery_Times$Delivery_Time,right = FALSE,breaks = breaks,main = "His
togram of Delivery Times",xlab = "Delivery Time",ylab = "Frequency")
>
```

```
14 hist_data <- hist(Delivery_Times$Delivery_Time, breaks = breaks, right
15 frequencies <- hist_data$counts
16 cum_freq <- cumsum(frequencies)
17 print(frequencies)
18 print(cum_freq)
19
20
```

18:16 (Top Level) R Script

Console Terminal Background Jobs

R 4.2.2 · C:/Users/it24101339/Desktop/IT24101339/

```
'data.frame':   40 obs. of  1 variable:
 $ Delivery_Time: int  34 54 47 29 39 61 20 40 57 36 ...
> breaks <- seq(20, 70, length.out = 10)
> hist(Delivery_Times$Delivery_Time,right = FALSE,breaks = breaks,main = "H
istogram of Delivery Times",xlab = "Delivery Time",ylab = "Frequency")
> hist_data <- hist(Delivery_Times$Delivery_Time, breaks = breaks, right =
FALSE, plot = FALSE)
> frequencies <- hist_data$counts
> cum_freq <- cumsum(frequencies)
> print(frequencies)
[1] 2 3 6 9 6 3 6 3 2
> print(cum_freq)
[1]  2  5 11 20 26 29 35 38 40
```

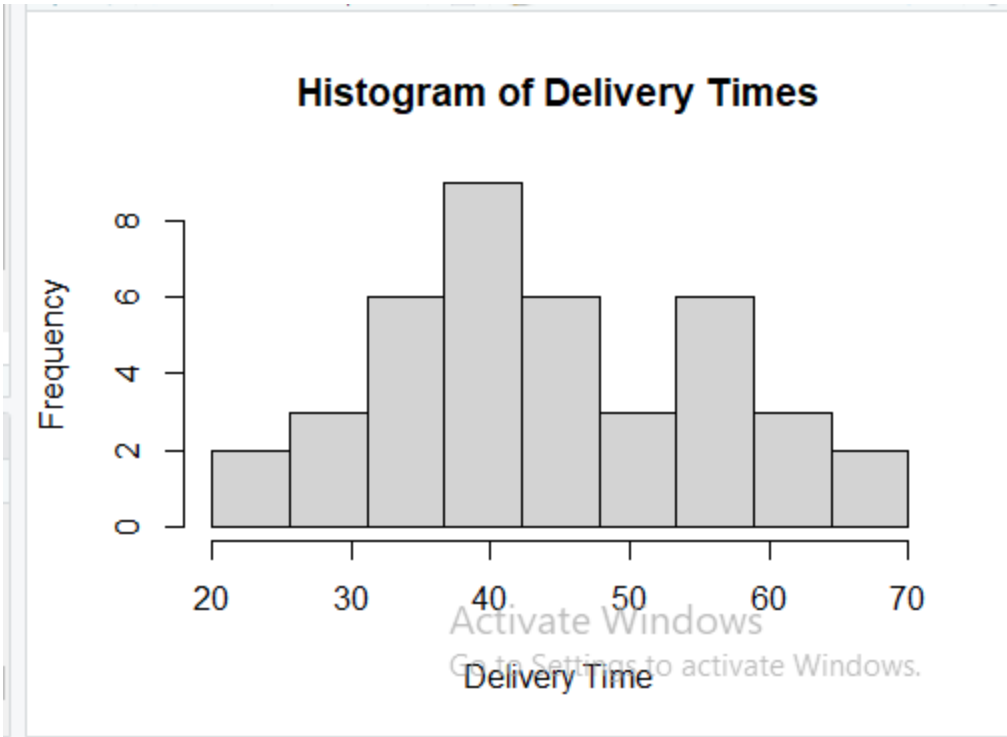
```
22 midpoints <- hist_data$mids
23 plot(midpoints, cum_freq, type = "b",
24      main = "Cumulative Frequency Polygon for Delivery Time",
25      xlab = "Delivery Time (minutes)",
26      ylab = "Cumulative Frequency",
27
```

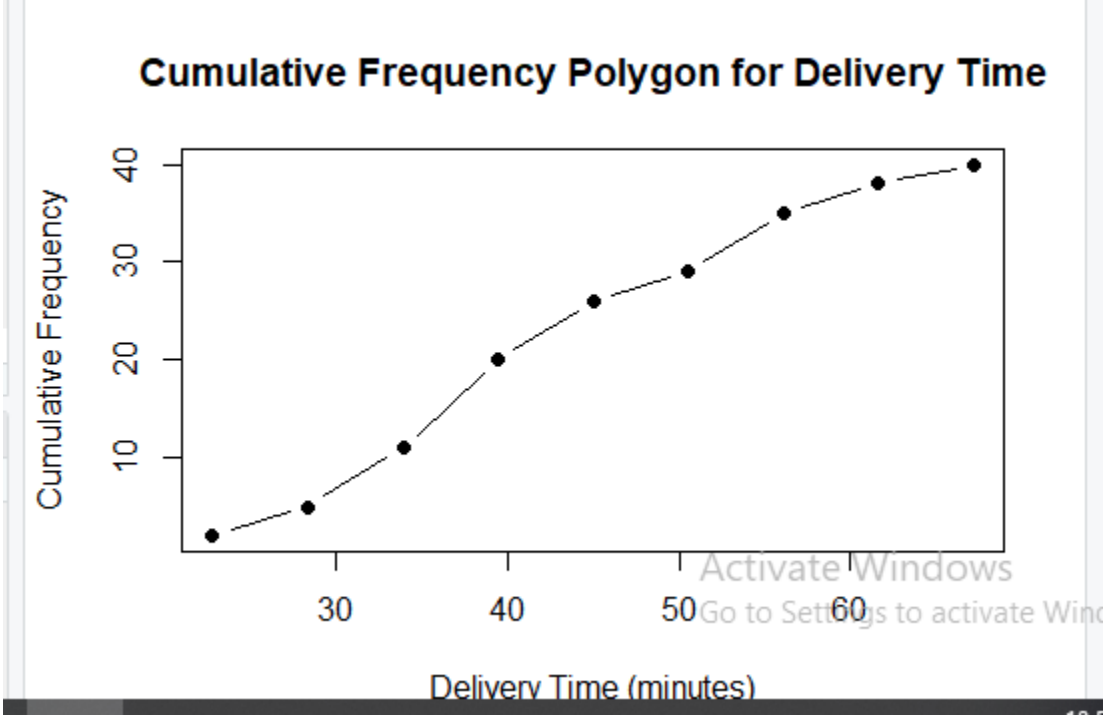
20:1 (Top Level) R

Console Terminal Background Jobs

R 4.2.2 · C:/Users/it24101339/Desktop/IT24101339/

```
> midpoints <- hist_data$mids
> plot(midpoints, cum_freq, type = "b",
+      main = "Cumulative Frequency Polygon for Delivery Time",
+      xlab = "Delivery Time (minutes)",
+      ylab = "Cumulative Frequency",
+      pch = 16)
```


Histogram of Delivery Times
Frequency
0
2
4
6
8
20
30
40
50
60
70
Delivery Time
Activate Windows
Go to Settings to activate Windows.


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