

IT24101368

PS LAB 05

Q1

```
Untitled1* x
Source on Save
Run
Source
1 setwd("C:\\Users\\it24101368\\Desktop\\IT24101368_LAB5")
2 getwd()
3
4 #1
5 # Import the data set
6 Delivery_Times <- read.table("Exercise - Lab 05.txt",header=TRUE)|
```

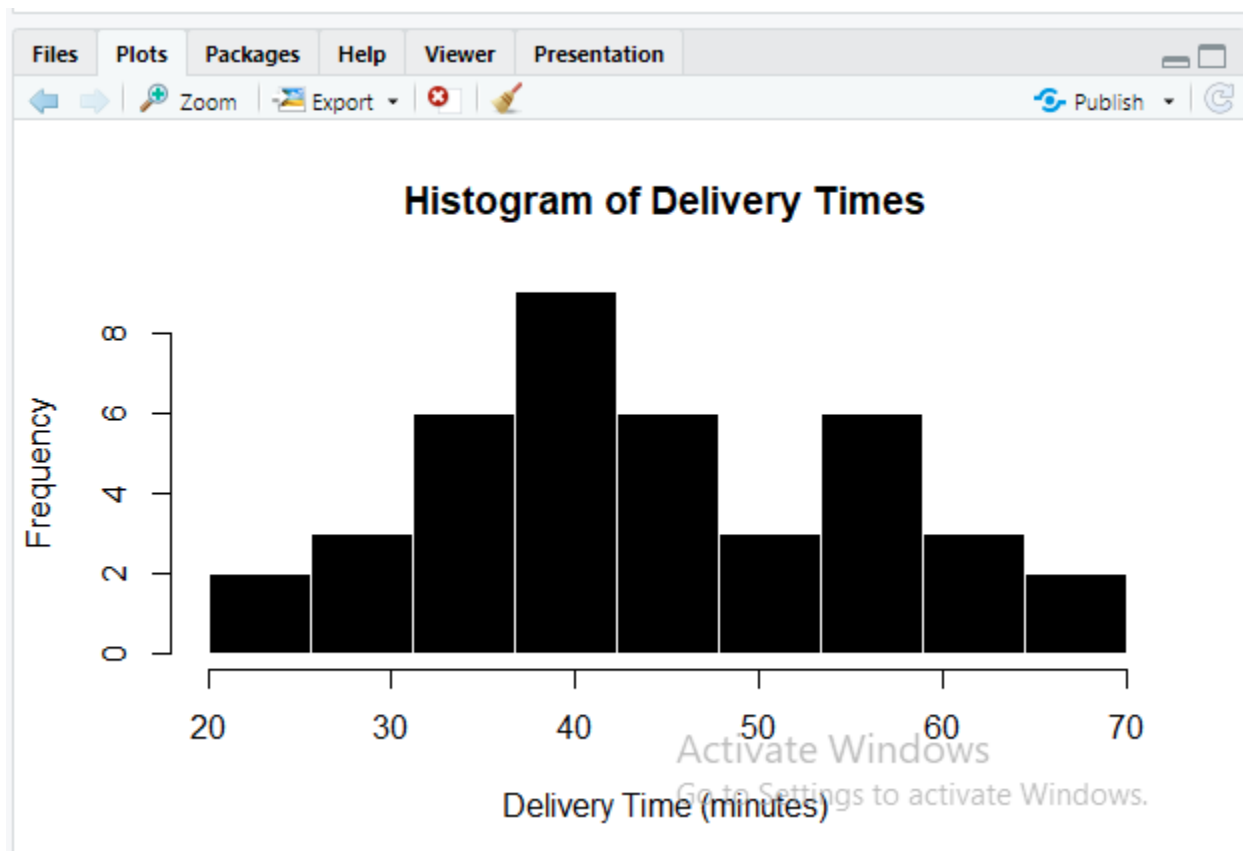
```
Console terminal x Background Jobs x
R 4.2.2 C:/Users/it24101368/Desktop/IT24101368_LAB5/
> setwd("C:\\Users\\it24101368\\Desktop\\IT24101368_LAB5")
> getwd()
[1] "C:/Users/it24101368/Desktop/IT24101368_LAB5"
>
> #1
> # Import the data set
> Delivery_Times <- read.table("Exercise - Lab 05.txt",header=TRUE)
```

Q2

```
#2
#Rename the column to something simple
colnames(Delivery_Times) <- c("Time")

#Define 9 class intervals from 20 to 70
breaks <- seq(20, 70, length.out = 10) # 9 intervals + 10 breakpoints

#Draw histogram
hist(Delivery_Times$Time,
     breaks = breaks,
     right = FALSE,
     col = "black",
     main = "Histogram of Delivery Times",
     xlab = "Delivery Time (minutes)",
     ylab = "Frequency",
     border = "white")
```



Q3

#3

#Values spread between 20 and 67.

#More concentration around 35–55 minutes.

#The histogram will show a unimodal distribution, slightly right-skewed (longer tail toward higher times).

Q4

```
#4
# Rename the column to something simple
colnames(Delivery_Times) <- c("Time")

# Frequency table
freq <- hist(Delivery_Times$Time,
             breaks = breaks, right = FALSE, plot = FALSE)

# Cumulative frequencies
cum_freq <- cumsum(freq$counts)

# Plot ogive
plot(breaks[-1], cum_freq, type = "o", pch = 16,
     main = "Cumulative Frequency Polygon (Ogive)",
     xlab = "Delivery Time (minutes)",
     ylab = "Cumulative Frequency",
     col = "darkgray")
```

