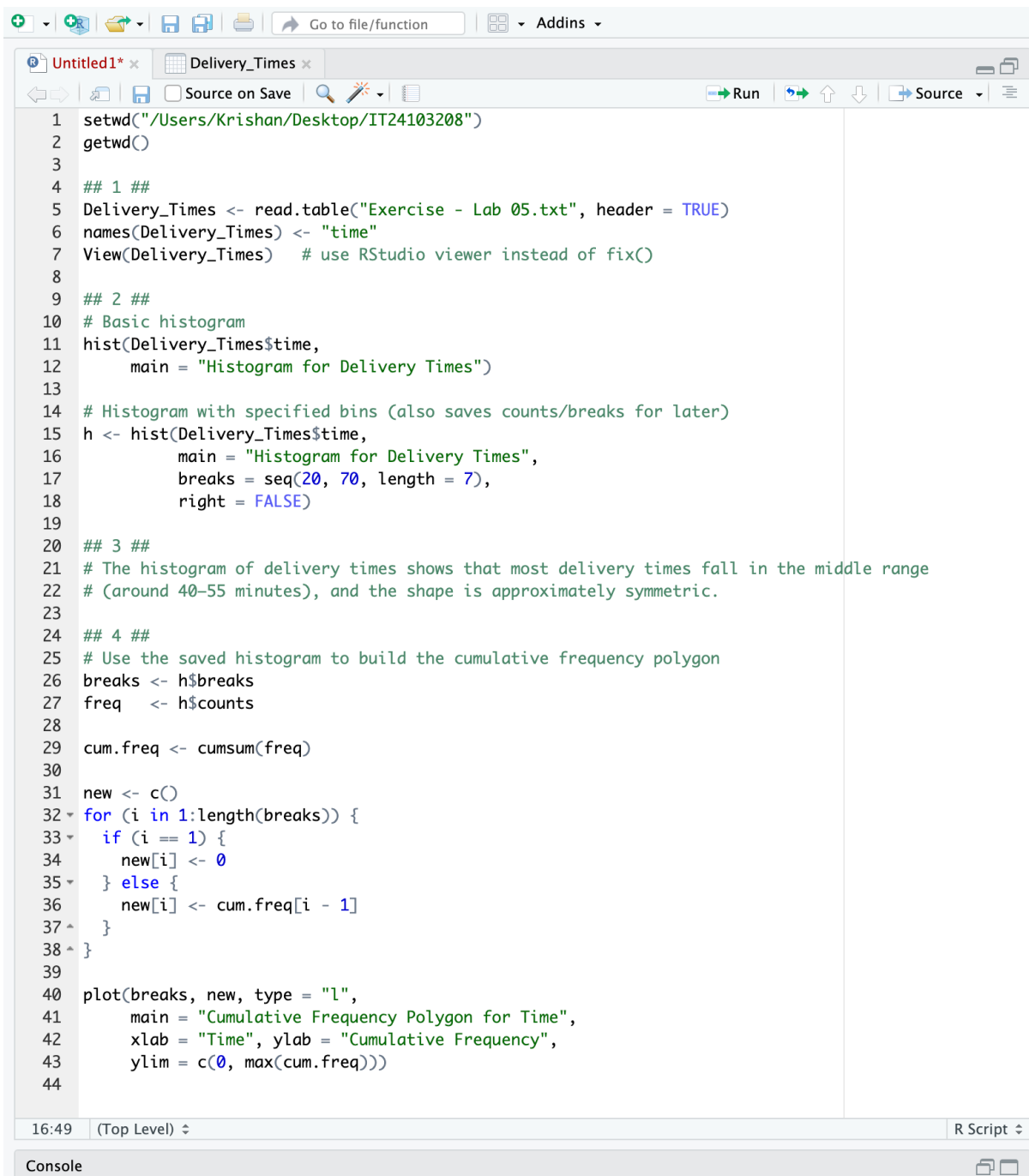


IT24103208

Sabaragamuwa S.K.S.I

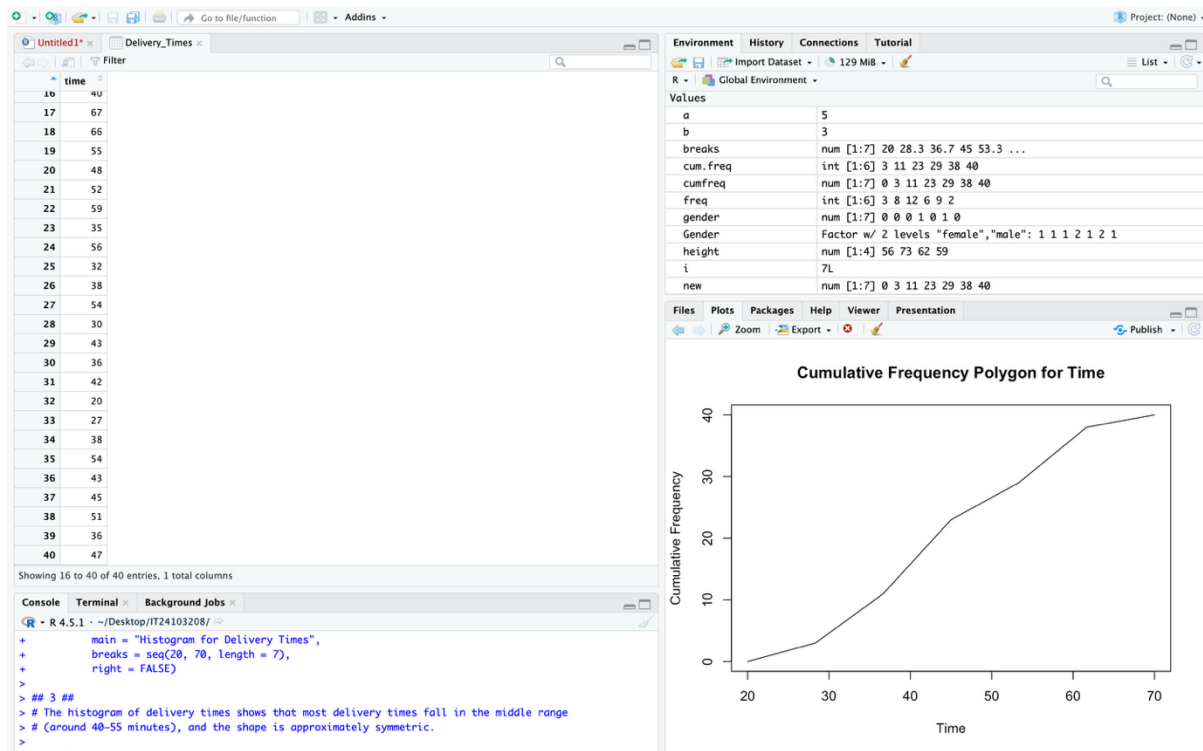
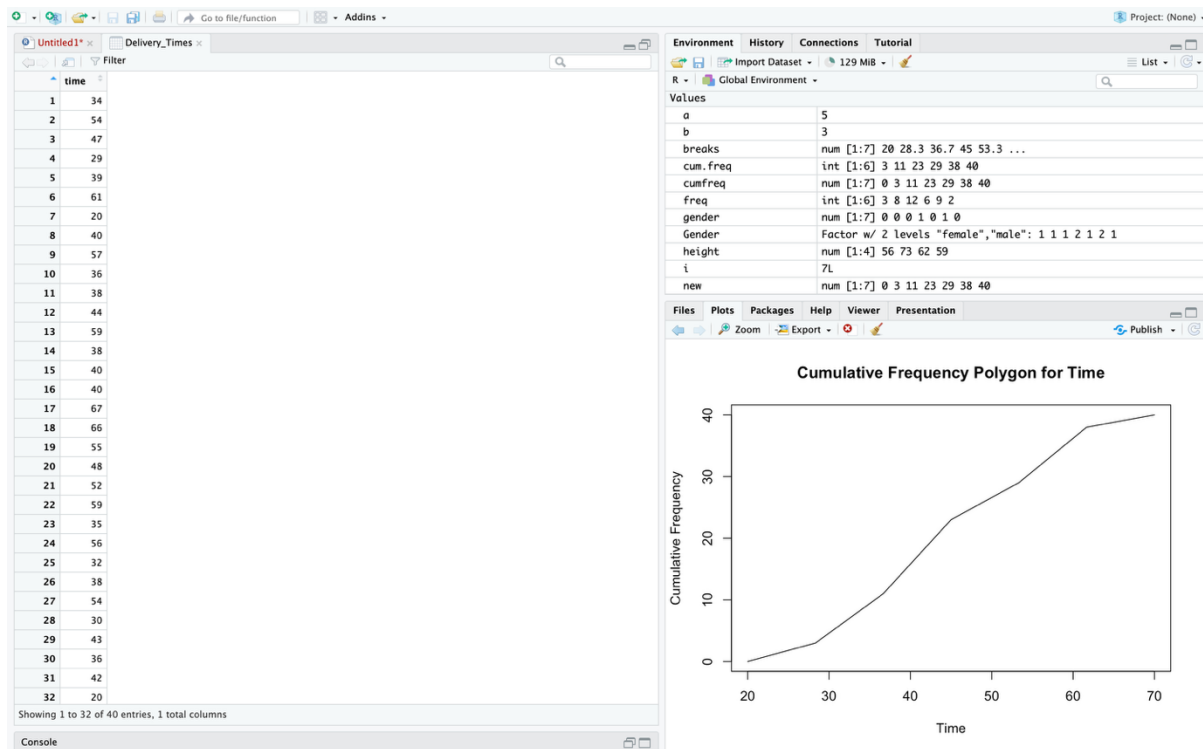
Lab5



```
1 setwd("/Users/Krishan/Desktop/IT24103208")
2 getwd()
3
4 ## 1 ##
5 Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
6 names(Delivery_Times) <- "time"
7 View(Delivery_Times) # use RStudio viewer instead of fix()
8
9 ## 2 ##
10 # Basic histogram
11 hist(Delivery_Times$time,
12       main = "Histogram for Delivery Times")
13
14 # Histogram with specified bins (also saves counts/breaks for later)
15 h <- hist(Delivery_Times$time,
16           main = "Histogram for Delivery Times",
17           breaks = seq(20, 70, length = 7),
18           right = FALSE)
19
20 ## 3 ##
21 # The histogram of delivery times shows that most delivery times fall in the middle range
22 # (around 40-55 minutes), and the shape is approximately symmetric.
23
24 ## 4 ##
25 # Use the saved histogram to build the cumulative frequency polygon
26 breaks <- h$breaks
27 freq <- h$counts
28
29 cum.freq <- cumsum(freq)
30
31 new <- c()
32 for (i in 1:length(breaks)) {
33   if (i == 1) {
34     new[i] <- 0
35   } else {
36     new[i] <- cum.freq[i - 1]
37   }
38 }
39
40 plot(breaks, new, type = "l",
41       main = "Cumulative Frequency Polygon for Time",
42       xlab = "Time", ylab = "Cumulative Frequency",
43       ylim = c(0, max(cum.freq)))
44
```

16:49 (Top Level) ↕ R Script ↕

Console



```
Console Terminal Background Jobs
R R 4.5.1 · ~/Desktop/IT24103208/

> setwd("/Users/Krishan/Desktop/IT24103208")
> getwd()
[1] "/Users/krishan/Desktop/IT24103208"
>
> ## 1 ##
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
> names(Delivery_Times) <- "time"
> View(Delivery_Times) # use RStudio viewer instead of fix()
>
> ## 2 ##
> # Basic histogram
> hist(Delivery_Times$time,
+      main = "Histogram for Delivery Times")
>
> # Histogram with specified bins (also saves counts/breaks for later)
> h <- hist(Delivery_Times$time,
+          main = "Histogram for Delivery Times",
+          breaks = seq(20, 70, length = 7),
+          right = FALSE)
>
> ## 3 ##
> # The histogram of delivery times shows that most delivery times fall in the middle range
> # (around 40-55 minutes), and the shape is approximately symmetric.
>
> ## 4 ##
```

```
Console Terminal Background Jobs
R R 4.5.1 · ~/Desktop/IT24103208/

> ## 3 ##
> # The histogram of delivery times shows that most delivery times fall in the middle range
> # (around 40-55 minutes), and the shape is approximately symmetric.
>
> ## 4 ##
> # Use the saved histogram to build the cumulative frequency polygon
> breaks <- h$breaks
> freq <- h$counts
>
> cum.freq <- cumsum(freq)
>
> new <- c()
> for (i in 1:length(breaks)) {
+   if (i == 1) {
+     new[i] <- 0
+   } else {
+     new[i] <- cum.freq[i - 1]
+   }
+ }
>
> plot(breaks, new, type = "l",
+      main = "Cumulative Frequency Polygon for Time",
+      xlab = "Time", ylab = "Cumulative Frequency",
+      ylim = c(0, max(cum.freq)))
>
```

