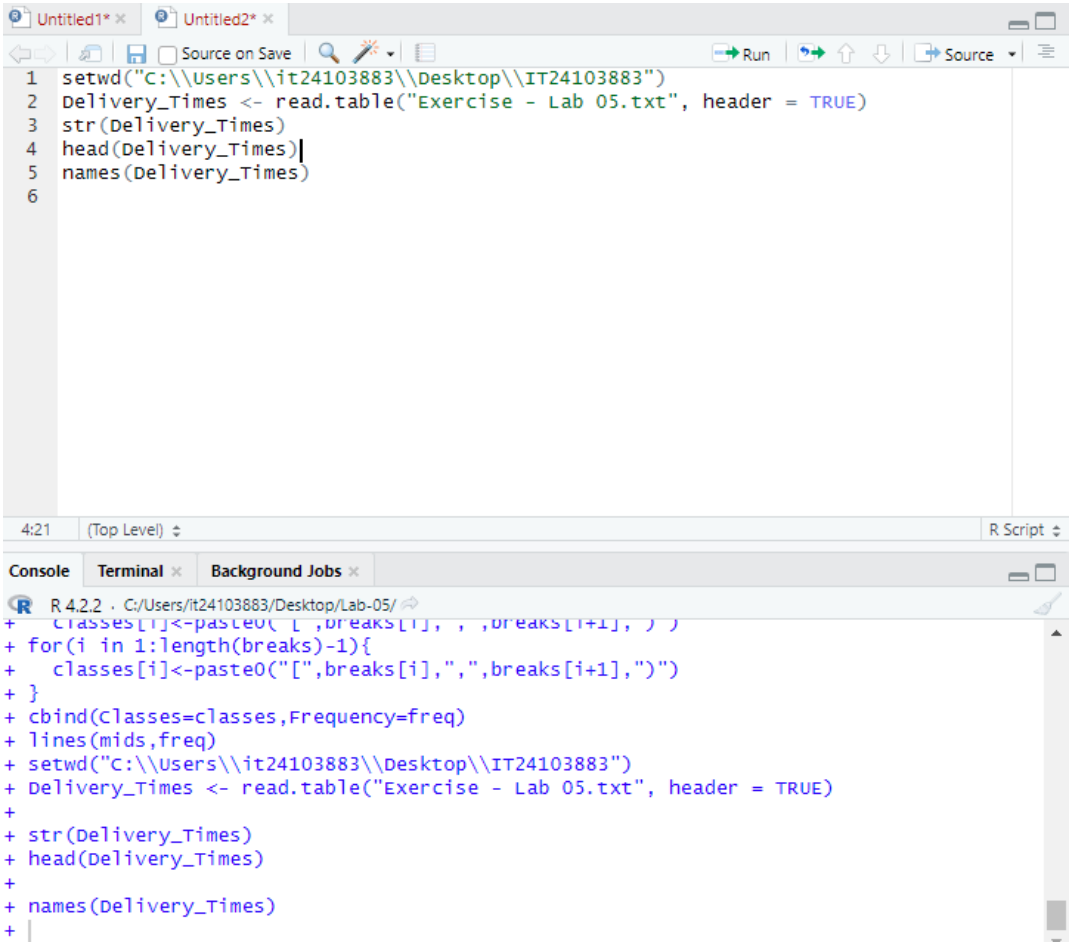
Lab Sheet 5


Untitled1*
Untitled2*
Source on Save
Run
Source
1 setwd("C:\\Users\\it24103883\\Desktop\\IT24103883")
2 Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
3 str(Delivery_Times)
4 head(Delivery_Times)
5 names(Delivery_Times)
6
4:21
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · C:/Users/it24103883/Desktop/Lab-05/
+ for(i in 1:length(breaks)-1){
+ classes[i]<-paste0("[",breaks[i],",",breaks[i+1],")")
+ }
+ cbind(Classes=classes,Frequency=freq)
+ lines(mids,freq)
+ setwd("C:\\Users\\it24103883\\Desktop\\IT24103883")
+ Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
+ str(Delivery_Times)
+ head(Delivery_Times)
+ names(Delivery_Times)

Untitled1* Untitled2*

Source on Save | Run | Source

```
setwd("C:\\Users\\it24103883\\Desktop\\IT24103883")
Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
str(Delivery_Times)
head(Delivery_Times)
names(Delivery_Times)
# Define break points for the bins
breaks <- seq(20, 70, length.out = 10)  # 9 intervals means 10 break points

hist(Delivery_Times$Delivery_Time_.minutes.,
     breaks = breaks,
     right = FALSE,   # right open intervals means intervals are like [a, b)
     col = "lightblue",
     main = "Histogram of Delivery Times",
     xlab = "Delivery Time(minutes)",
     ylab = "Frequency")
```

6:1 (Top Level) R Script

Console Terminal Background Jobs

R 4.2.2 · C:/Users/it24103883/Desktop/Lab-05/

```
+      main = "Histogram of Delivery Times",
+      xlab = "Delivery Time(minutes)",
+      ylab = "Frequency")
+ # Define break points for the bins
+ breaks <- seq(20, 70, length.out = 10)  # 9 intervals means 10 break points
+
+ hist(Delivery_Times$Delivery_Time_.minutes.,
+      breaks = breaks,
+      right = FALSE,   # right open intervals means intervals are like [a, b)
+      col = "lightblue",
+      main = "Histogram of Delivery Times",
+      xlab = "Delivery Time(minutes)",
+      ylab = "Frequency")
+
```

```
classes    chr [1:7] "[130,150)" "[150,170)" "[...
```

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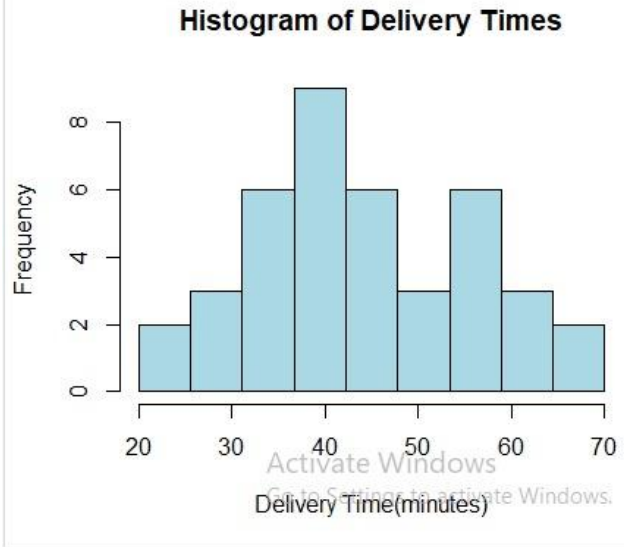
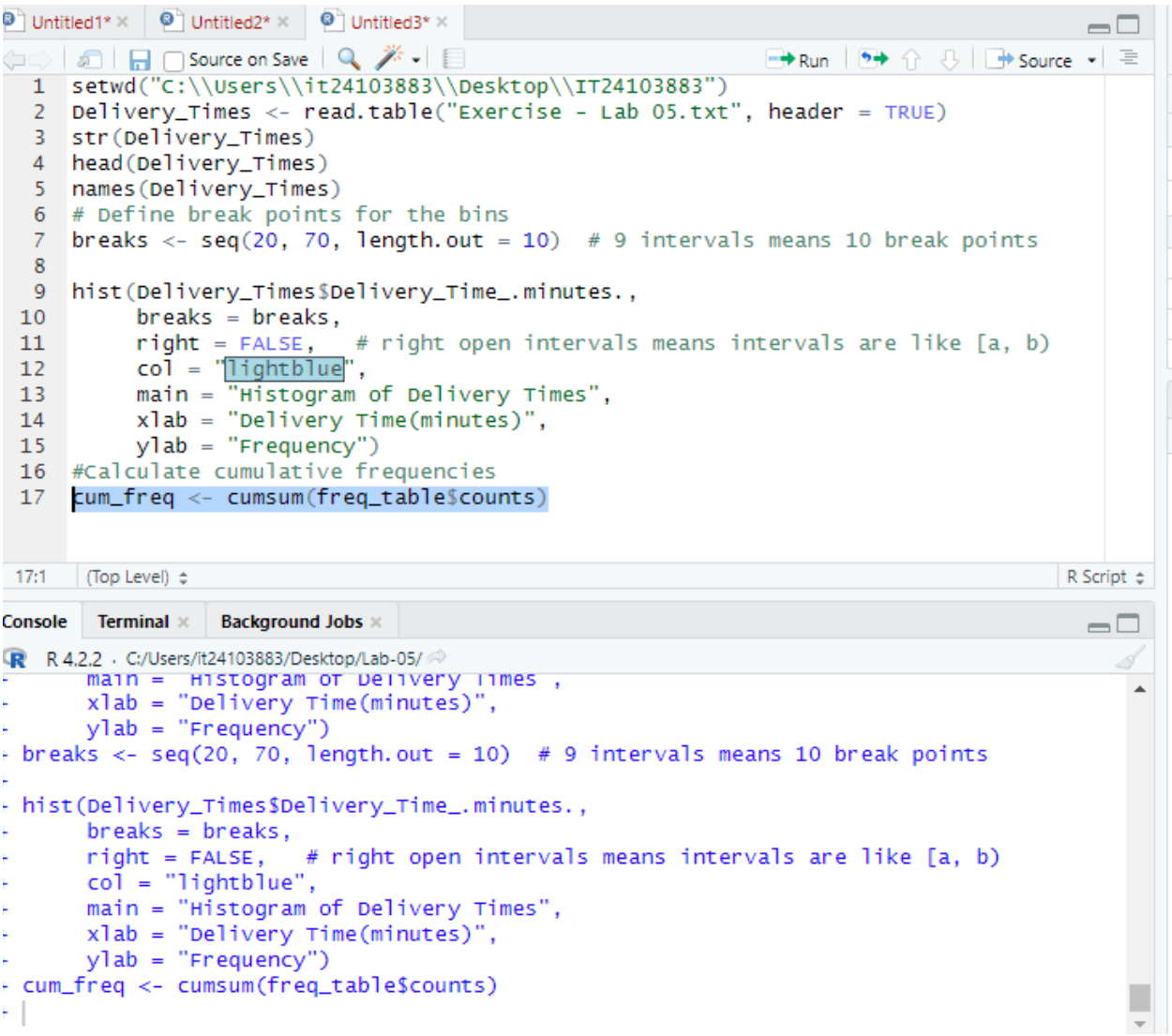
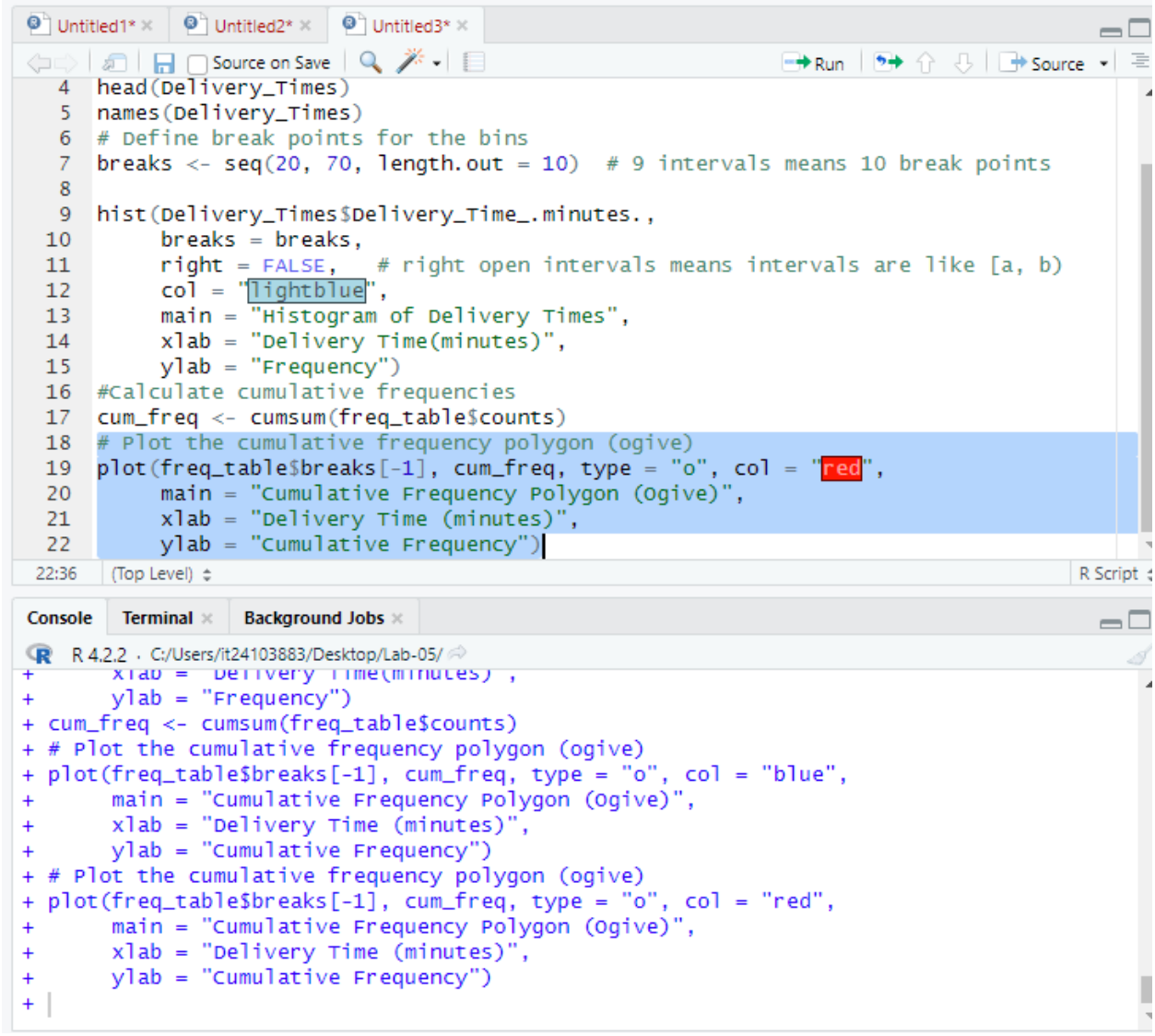
Zoom Export




Untitled1*
Untitled2*
Untitled3*
Source on Save
Run
Source
setwd("C:\\Users\\it24103883\\Desktop\\IT24103883")
Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
str(Delivery_Times)
head(Delivery_Times)
names(Delivery_Times)
# Define break points for the bins
breaks <- seq(20, 70, length.out = 10) # 9 intervals means 10 break points
hist(Delivery_Times$Delivery_Time_.minutes.,
breaks = breaks,
right = FALSE, # right open intervals means intervals are like [a, b)
col = "lightblue",
main = "Histogram of Delivery Times",
xlab = "Delivery Time(minutes)",
ylab = "Frequency")
#Calculate cumulative frequencies
cum_freq <- cumsum(freq_table$counts)
17:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · C:/Users/it24103883/Desktop/Lab-05/


Untitled1*
Untitled2*
Untitled3*
Source on Save
Run
Source
head(Delivery_Times)
names(Delivery_Times)
# Define break points for the bins
breaks <- seq(20, 70, length.out = 10) # 9 intervals means 10 break points
hist(Delivery_Times$Delivery_Time_.minutes.,
breaks = breaks,
right = FALSE, # right open intervals means intervals are like [a, b)
col = "lightblue",
main = "Histogram of Delivery Times",
xlab = "Delivery Time(minutes)",
ylab = "Frequency")
#Calculate cumulative frequencies
cum_freq <- cumsum(freq_table$counts)
# Plot the cumulative frequency polygon (ogive)
plot(freq_table$breaks[-1], cum_freq, type = "o", col = "red",
main = "Cumulative Frequency Polygon (Ogive)",
xlab = "Delivery Time (minutes)",
ylab = "Cumulative Frequency")
22:36
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · C:/Users/it24103883/Desktop/Lab-05/
+ ylab = "Frequency")
+ cum_freq <- cumsum(freq_table$counts)
+ # Plot the cumulative frequency polygon (ogive)
+ plot(freq_table$breaks[-1], cum_freq, type = "o", col = "blue",
+ main = "Cumulative Frequency Polygon (Ogive)",
+ xlab = "Delivery Time (minutes)",
+ ylab = "Cumulative Frequency")
+ # Plot the cumulative frequency polygon (ogive)
+ plot(freq_table$breaks[-1], cum_freq, type = "o", col = "red",
+ main = "Cumulative Frequency Polygon (Ogive)",
+ xlab = "Delivery Time (minutes)",
+ ylab = "Cumulative Frequency")

Values

breaks	num [1:10] 20 25.6 31.1 36.7 42.2 ...
classes	chr [1:7] "[130,150)" "[150,170)" "[…

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Zoom | Export