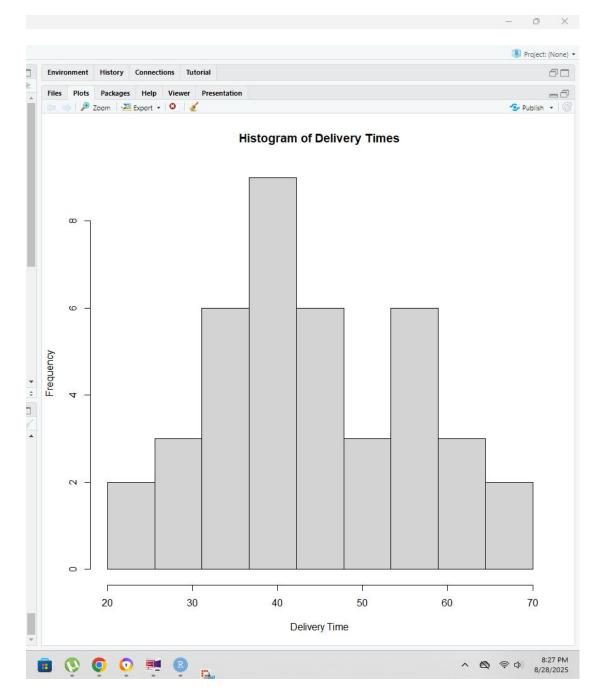
IT2120 - Probability and Statistics IT24103555 Senan R. A. D. T

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1)
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
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 O Untitled1* × O it24103495 (1).R* ×
 Run Source
    1 setwd("C:\\Users\\USER\\Desktop\\IT24103555")
      ##01)
    4 Delivery_Times<-read.table("Exercise - Lab 05.txt", header=TRUE)
Console Terminal × Background Jobs ×
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                                                                         00
Error: '\U' used without hex digits in character string (<input>:1:11)
> setwd("C:\\Users\\USER\\Desktop\\IT24103555")
> Delivery_Times<-read.table("Exercise - Lab 05.txt", header=TRUE)
2)
    0
    6
      ##02)
    7
      histogram<-hist(Delivery_Times$Delivery,
                      main="Histogram of Delivery Times",
    8
    9
                      xlab = "Delivery Time",
                      ylab = "Frequency",
  10
                       breaks = seq(20, 70, length = 10),
  11
                      right = FALSE)
  12
> histogram<-hist(Delivery_Times$Delivery,
                   main="Histogram of Delivery Times",
 +
                   xlab = "Delivery Time",
                   ylab = "Frequency",
breaks = seq(20, 70,length = 10),
 +
 +
                   right = FALSE)
 +
 >
```



O3)

13

14 ##03)

15 ##The distribution is roughly symmetric with a peak around 40 minutes, but the right side is a little higher than the left.

16

```
04)
```

```
16
17 #<u>#04</u>)
  18 breaks <- round(histogram$breaks)
19 freq <- histogram$counts
  21 cum_freq <- cumsum(freq)
  22
23 new <- c()
 31 4 }
  32 / 32 / 33 plot(breaks, new, type = "l", main = "Cumulative Frequency Polygon (Ogive) for Delivery Times", xlab = "Delivery Time (minutes) - Upper Class Limit", ylab = "Cumulative Frequency", ylim = c(0, max(new))) 34
  35
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                                                                                                                                                                                                                      R Scrip
26:15 (Top Level) $
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R • R 45.1 · C:/Users/USER/Desktop//T24103555/
##04)
breaks"
> ##04)
> breaks <- round(histogram$breaks)
> freq <- histogram$counts
> cum_freq <- cumsum(freq)
> new <- c()
>> plot(breaks, new, type = "l", main = "cumulative Frequency Polygon (ogive) for Delivery Times", xlab = "Delivery Time (minutes) - Upper Class Limit", ylab = "Cumulative Frequency", ylim = c(0, max(new))) > |
```