Sri Lanka Institute of Information Technology



Lab Submission Lab sheet No 5

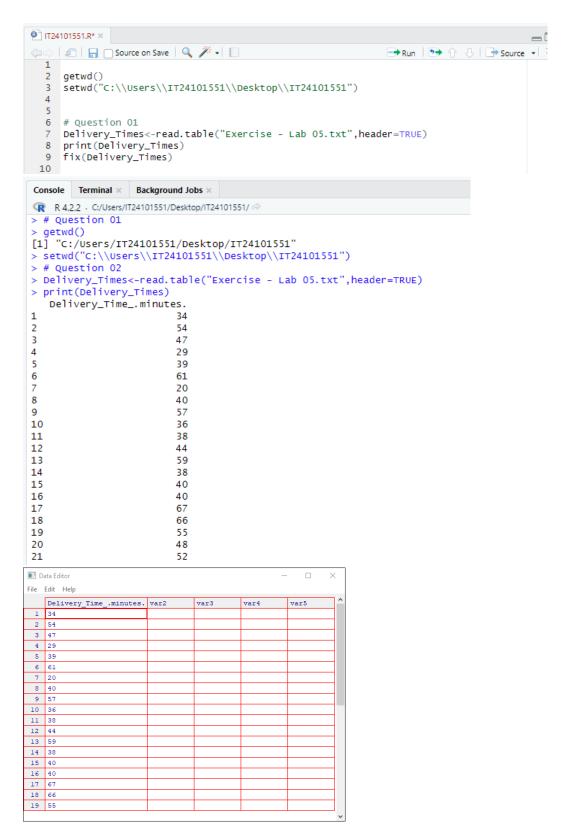
IT24101551 Kuyilini. T

IT2120 - Probability and Statistics

B.Sc. (Hons) in Information Technology

Exercise

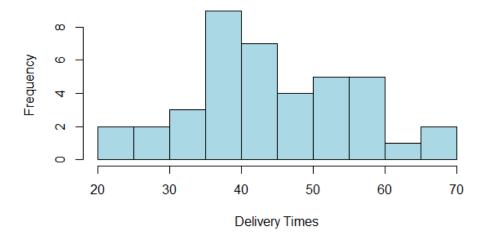
1. Import the dataset ('Exercise – Lab 05.txt') into R and store it in a data frame called "Delivery Times".



2. Draw a histogram for deliver times using nine class intervals where the lower limit is 20 and upper limit is 70. Use right open intervals.

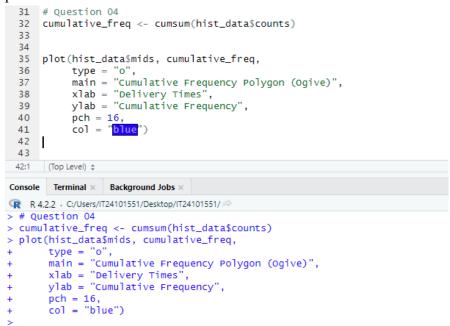
```
IT24101551.R* ×
    Run
 11
     # Question 02
 12
     hist(Delivery_Times$Delivery,
 13
          breaks = seq(20, 70, by = 5),
 14
          right = FALSE,
          main = "Histogram of Delivery Times",
 15
          xlab = "Delivery Times",
 16
          ylab = "Frequency",
 17
          col = "lightblue
 18
          border =
 19
                   "b1ack")
 20
 21
 22
     hist_data <- hist(Delivery_Times$Delivery,
 23
                      breaks = seq(20, 70, by = 5),
 24
                      right = FALSE,
 25
                      plot = FALSE)
 26
```

Histogram of Delivery Times



3. Comment on the shape of the distribution.

4. Draw a cumulative frequency polygon (ogive) for the data in a separate plot.



Cumulative Frequency Polygon (Ogive)

