

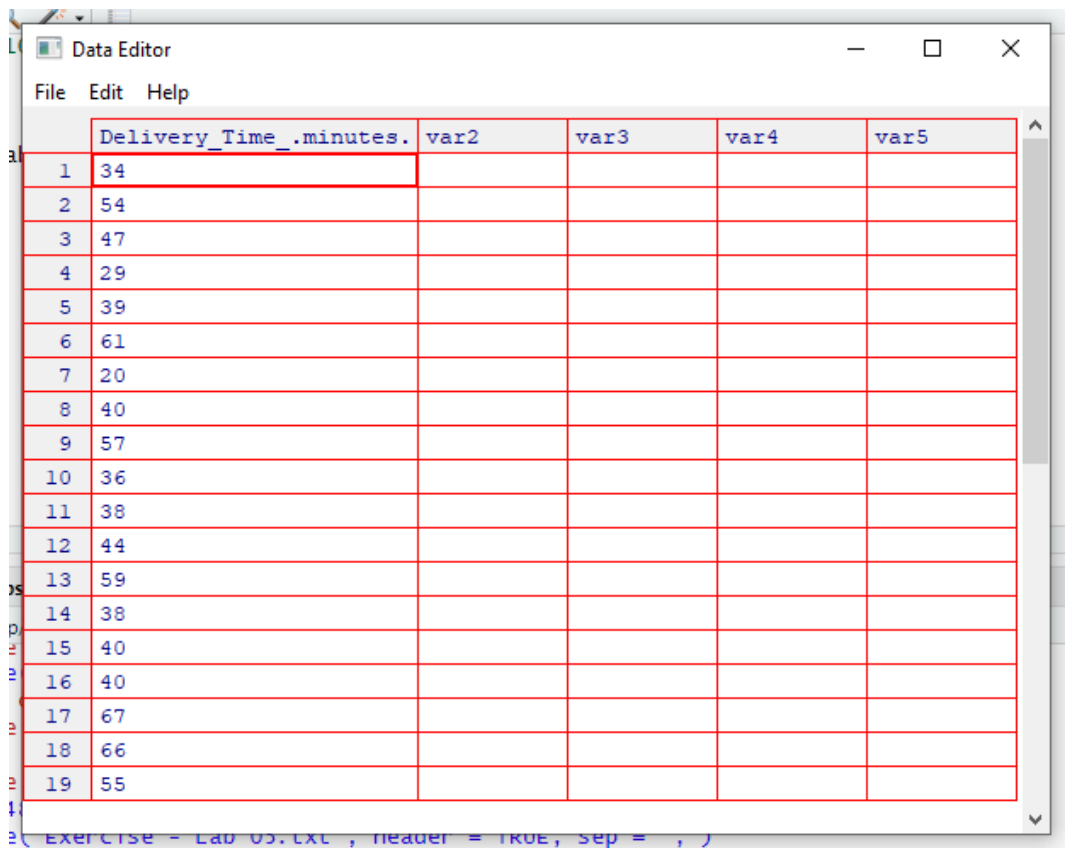
Probability and Statistics - IT2120

Lab sheet 05

IT24101484 – Mayadunna.S.W.S.P

1)

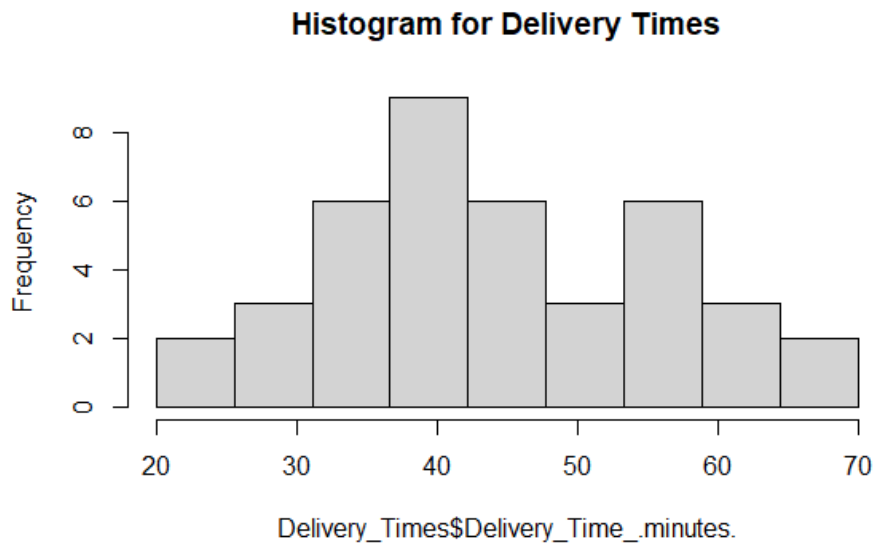
```
setwd("C:\\Users\\IT24101484\\Desktop\\Lab05")  
  
# 1)  
  
Delivery_Times<-read.table("Exercise - Lab 05.txt", header = TRUE, sep = ",")  
fix(Delivery_Times)  
attach(Delivery_Times)
```



	Delivery_Time_.minutes.	var2	var3	var4	var5
1	34				
2	54				
3	47				
4	29				
5	39				
6	61				
7	20				
8	40				
9	57				
10	36				
11	38				
12	44				
13	59				
14	38				
15	40				
16	40				
17	67				
18	66				
19	55				

2)

```
# 2)
hist(Delivery_Times$Delivery_Time_.minutes.,main = "Histogram for Delivery Times",
     breaks = seq(20, 70, length = 10),right = TRUE)
```



3)Bimodal Distribution

4)

```
# 4)
hist_data <- hist(Delivery_Times$Delivery_Time_.minutes.,
                  breaks = seq(20, 70, length = 10),
                  right = FALSE, plot = FALSE)
frequencies <- hist_data$counts
cum_freq <- cumsum(frequencies)
print(frequencies)
print(cum_freq)

midpoints <- hist_data$mids
plot(midpoints, cum_freq, type = "b",
     main = "Cumulative Frequency polygon for Delivery Time",
     xlab = "Delivery Time",
     ylab = "Cumulative Frequency",
     pch = 16)
```

Cumulative Frequency polygon for Delivery Time

