Sri Lanka Institute of Information Technology

Lab Submission
Lab sheet 05

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Probability and Statistics | IT2120

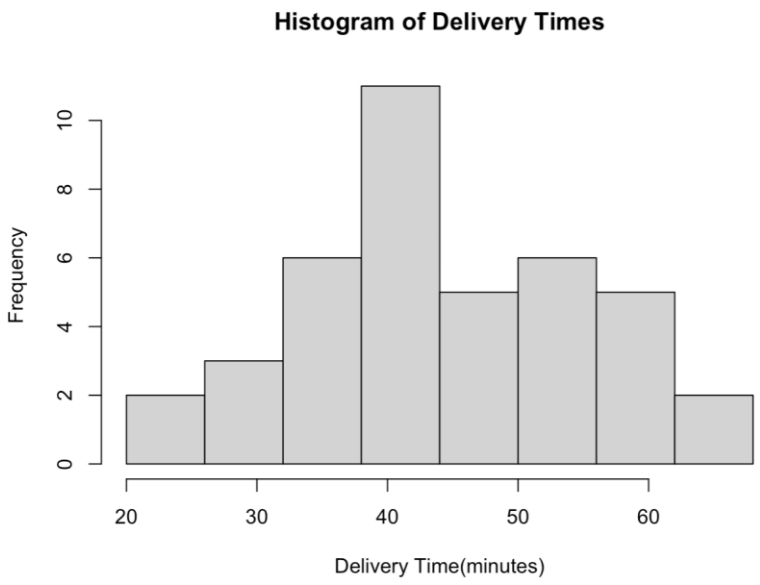
B.Sc. (Hons) in Information Technology

1.

```
> #Import the dataset
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE, sep=",")
> print(Delivery_Times)
   Delivery_Time_.minutes.
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
```

2.

```
> #02
> #Draw a histogram
> hist(Delivery_Times$Delivery_Time,
+      main = "Histogram of Delivery Times",
+      xlab = "Delivery Time(minutes)",
+      ylab = "Frequency",
+      breaks=seq(20, 70, by=6),
+      right=FALSE)
>
```



4.

```
> #04
> cum_freq <- cumsum(table(cut(Delivery_Times$Delivery_Time, breaks=seq(20, 70, by=5), right = FALSE)))
> plot(seq(20, 65, by=5), cum_freq, type='o',
+      main = "Cumulative Frequency Polygon(ogive) for Delivery Times",
+      xlab="Delivery Time(minutes)",
+      ylab="Cumulative Frequency",
+      ylim=c(0, max(cum_freq)),
+      pch=16)
```