## IT2120 - Probability and Statistics Lab Sheet 05 It24101982

## Lab Exercise 5

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

```
getwd()
setwd("C:\\Users\\it24101982\\Desktop\\IT24101982")
getwd()
##exercise

# Import the dataset
Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)</pre>
```

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.

```
# Draw histogram with 9 class intervals (20 to 70, right open)
hist(Delivery_Times$Time, breaks = seq(20, 70, length.out = 10), right = FALSE,
    main = "Histogram of Delivery Times", xlab = "Delivery Time", ylab = "Frequency")
```

3. Comment on the shape of the distribution.

```
# Comment on the shape (to be added as a screenshot in Word doc)
# The distribution appears to be [shape description, e.g., skewed right, to be observed from histogram]
```

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