IT2120 - Probability and Statistics

Lab Sheet 05

IT24100502

1.

```
setwd("C:\\Users\\IT24100502\\Desktop\\IT24100502")
Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE)</pre>
print(Delivery_Times)
> setwd("C:\\users\\IT24100502\\Desktop\\IT24100502")
> getwd()
[1] "C:/Users/IT24100502/Desktop/IT24100502"
Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE)
> print(Delivery_Times)
    Delivery_Time_.minutes.
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
                            44
12
                            59
13
14
                            38
```



3. This is a Right-skewed distribution.

```
hist_data <- hist(Delivery_Times$Delivery,
                   breaks = seq(20, 70, by = 5),
                   right = FALSE,
                   plot = FALSE)
cumulative_freq <- cumsum(hist_data$counts)</pre>
plot(hist_data$mids, cumulative_freq,
     type = "o",
     main = "Cumulative Frequency Polygon (Ogive)",
     xlab = "Delivery Times",
     ylab = "Cumulative Frequency",
     pch = 16,
     col = "blue")
hist_data <- hist(Delivery_Times$Delivery,</pre>
                   breaks = seq(20, 70, by = 5),
                   right = FALSE,
                   plot = FALSE)
cumulative_freq <- cumsum(hist_data$counts)</pre>
plot(hist_data$mids, cumulative_freq,
     type = "o",
main = "Cumulative Frequency Polygon (Ogive)",
     xlab = "Delivery Times",
     ylab = "Cumulative Frequency",
     pch = 16,
     col = "blue")
```



