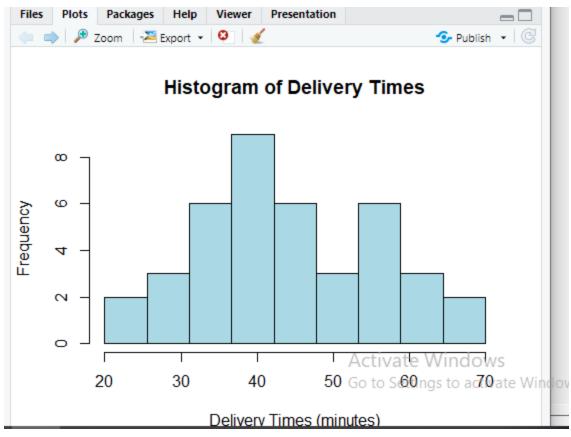
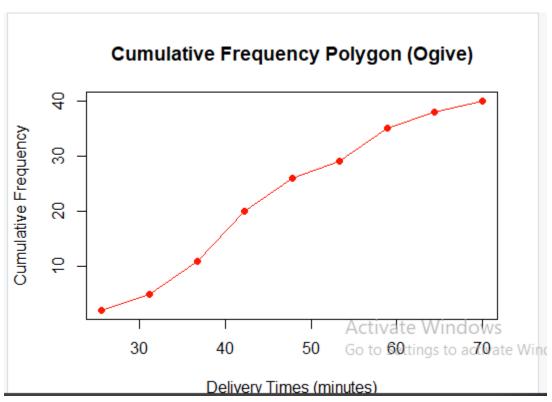
IT24102477

Probability and Statistics - IT2120

Lab sheet 05

```
Console Terminal × Background Jobs ×
    R 4.2.2 · C:/Users/IT24102477/Downloads/IT24102477/
   > setwd("C:/Users/IT24102477/Downloads/IT24102477")
   > Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
        str(Delivery_Times)
    'data.frame': 40 obs. of 1 variable:
       $ Delivery_Time_.minutes.: int 34 54 47 29 39 61 20 40 57 36 ...
   > head(Delivery_Times)
          Delivery_Time_.minutes
                                                                                                  54
   3
                                                                                                 47
                                                                                                 29
   4
   5
                                                                                                 39
   6
                                                                                                 61
61
> breaks <- seq(20, 70, length.out = 10)
> hist(Delivery_TimesSpelivery_Time,
+ breaks = breaks,
+ right = FALSE, # right-open intervals
+ main = "Histogram of Delivery Times",
+ xlab = "Delivery Times (minutes)",
+ ylab = "Frequency",
+ col = "lightblue",
+ border = "black")
hist(Delivery TimesSpelivery TimesSpelive
   + border = black)
> hist_data <- hist(Delivery_Times$Delivery_Time,
+ breaks = breaks,
+ right = FALSE,
+ plot = FALSE)
   > freq_table <- data.frame(
           Class_Interval = paste(head(breaks, -1), "-", tail(breaks, -1)),
                   Frequency = hist_data$counts,
                 Cumulative_Frequency = cumsum(hist_data$counts)
> print(freq_table)
```





```
setwd("C:/Users/IT24102477/Downloads/IT24102477")
Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
str(Delivery_Times)
head(Delivery_Times)
breaks \leftarrow seq(20, 70, length.out = 10)
hist(Delivery_Times$Delivery_Time,
     breaks = breaks,
     right = FALSE, # right-open intervals
     main = "Histogram of Delivery Times",
     xlab = "Delivery Times (minutes)",
    ylab = "Frequency",
     col = "lightblue",
     border = "black")
hist_data <- hist(Delivery_Times$Delivery_Time,
                  breaks = breaks,
                  right = FALSE,
                  plot = FALSE)
freq_table <- data.frame(</pre>
 Class_Interval = paste(head(breaks, -1), "-", tail(breaks, -1)),
 Frequency = hist_data$counts,
 Cumulative_Frequency = cumsum(hist_data$counts)
)
print(freq_table)
plot(hist_data$breaks[-1], cumsum(hist_data$counts), type = "o",
     main = "Cumulative Frequency Polygon (Ogive)",
     xlab = "Delivery Times (minutes)",
     ylab = "Cumulative Frequency",
     col = "red", pch = 16)
```