IT24101966

Exercise

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

```r
#set working directory
setwd("C:\\Users\\it24101966\\Desktop\\IT24101966 Lab_05")

#import Data
Delivery_Times <- read.table("Exercise - Lab 05.txt")
```

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.

```r
#2
breaks <- seq(20, 70, by=5)

# Create histogram
hist(Delivery_Times$Delivery_Time_, breaks=breaks,
     right=TRUE,
     main="Histogram of Delivery Times",
     xlab="Delivery Time")
```

3. Comment on the shape of the distribution.

```r
#3
#When looking at the history gram we can see the delivery time and how frequent are those.
#And the shape is a curve
```

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

```r
#4
freqency_table <- hist(Delivery_Times$Delivery_Time_.minutes.,
                       breaks = breaks,
                       plot = FALSE,
                       right = TRUE,)
cumulative_frequancy <- cumsum(freq_table$counts)
plot(freqency_table$mids,cumulative_frequancy,type = "o",
     main = "Cumulative frequency polygon",
     ylab = "cumulative frequency",
     xlab = "delievery time")
```