IT24101694 – D N PANDITHARATHNA

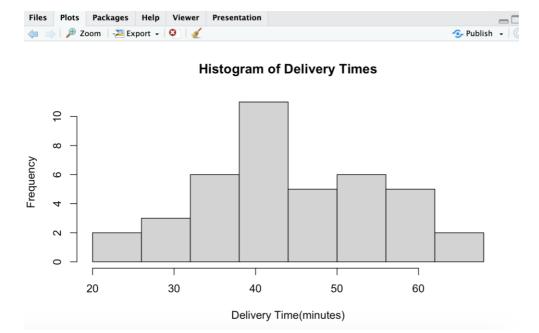
Exercise

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

```
#Import the dataset
Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE, sep=",")</pre>
print(Delivery_Times)
   Delivery_Time_.minutes.
2
3
                      47
4
                      29
5
                      39
6
                      61
7
                      20
8
                      40
                      57
10
                      36
                      38
11
12
                      44
                      59
13
14
                      38
```

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.

```
#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)
```



3. Comment on the shape of the distribution.

The distribution of delivery times is right-skewed, with the majority of delivery times falling between 30 and 45 minutes. A few higher values (above 50 minutes) extend the tail to the right.

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

