PS LAB 5

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Exercise:

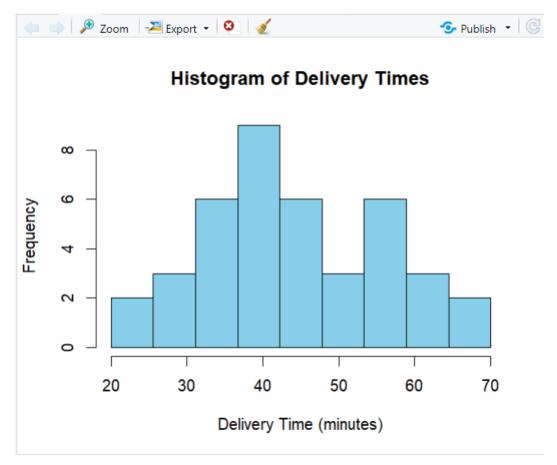
1. Import the dataset ('Exercise – Lab 05.txt') into R and store it in a data frame called" Delivery Times".

```
setwd("D:\\SLIIT LECTURES\\Y2 S1\\Lab sheets & answers\\PS (IT2120)\\lab5")
 Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
 print(Delivery_Times)
> getwd()
[1] "C:/Users/User/Documents"
> setwd("D:\\SLIIT LECTURES\\Y2 S1\\Lab sheets & answers\\PS (IT2120)\\lab5")
> getwd()
[1] "D:/SLIIT LECTURES/Y2 S1/Lab sheets & answers/PS (IT2120)/lab5"
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)</pre>
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)</pre>
> print(Delivery_Times)
   Delivery_Time_.minutes.
                          54
                          47
                          29
4
                          39
6
                          61
                          20
8
                          40
9
                          57
                          36
10
11
12
                          38
                          44
13
14
                          59
                          38
15
                          40
16
                          40
17
                          67
18
                          66
19
                          55
20
                          48
21
22
                          52
                          59
23
                          35
24
                          56
```

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.

```
hist(Delivery_Times$Delivery,
    breaks = seq(20, 70, length.out = 10),|
    right = FALSE,
    col = "skyblue",
    main = "Histogram of Delivery Times",
    xlab = "Delivery Time (minutes)",
    ylab = "Frequency")
```

```
> #2
> hist(Delivery_Times$Delivery,
+ breaks = seq(20, 70, length.out = 10),
+ right = FALSE,
+ col = "skyblue",
+ main = "Histogram of Delivery Times",
+ xlab = "Delivery Time (minutes)",
+ ylab = "Frequency")
> |
```



- 3. Comment on the shape of the distribution.
 - This has approximately symmetric and slightly skewed shape distribution.

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

