#### Lab sheet 05

## IT24102483

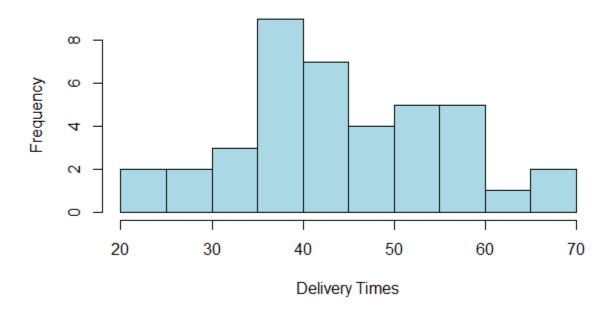
#### Premathilaka H.P.S.M

## 01.

```
setwd("C:\\Users\\IT24102483\\Downloads\\IT24102483")
Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE)
print(Delivery_Times)
> setwd("C:\\Users\\IT24102483\\Downloads\\IT24102483")
> Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE)
> 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
12
                         44
13
                         59
14
                         38
15
                         40
                         40
16
17
                         67
18
                         66
19
                         55
20
                         48
                         52
21
22
                         59
23
                         35
24
                         56
25
                         32
26
                         38
27
                         54
28
                         30
29
                         43
                         36
30
21
```

```
29
                             43
30
                             36
31
                             42
32
                             20
33
                             27
34
                             38
35
                             54
36
                             43
37
                             45
38
                             51
39
                             36
40
                             47
>
> hist(Delivery_Times$Delivery,
        breaks = seq(20, 70, by = 5),
        right = FALSE,
        main = "Histogram of Delivery Times",
        xlab = "Delivery Times",
ylab = "Frequency",
col = "lightblue",
        border = "black")
```

# **Histogram of Delivery Times**



## 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,
                    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(Delivery_Times$Delivery,
      breaks = seq(20, 70, by = 5),
+
+
      right = FALSE,
      main = "Histogram of Delivery Times",
+
      xlab = "Delivery Times",
+
      ylab = "Frequency",
      col = "lightblue",
      border = "black")
```

