

IT24101556
Bamnusinghe B.A.I.B.T

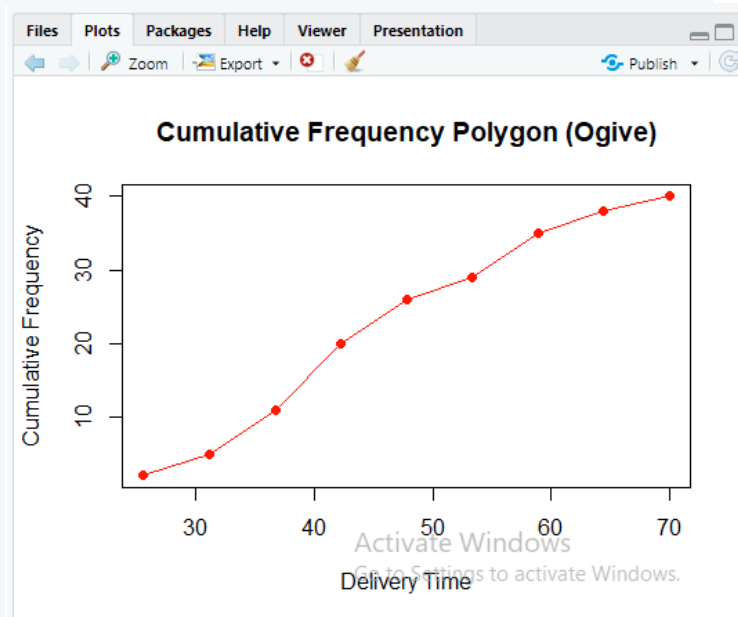
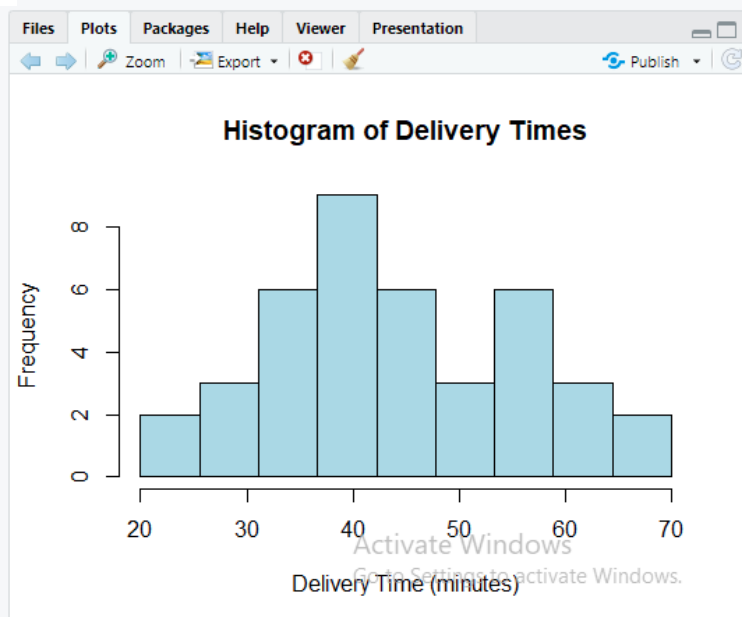
Probability and Statistics - IT2120

```
Lab05.R* x
Source on Save
Run
Source

1 setwd("C:\\Users\\it24101556\\Desktop\\IT24101556")
2 getwd()
3
4 #01
5 Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
6 head(Delivery_Times)
7
8 #02
9 breaks <- seq(20, 70, length.out = 10)
10 hist(Delivery_Times$Delivery_Time_.minutes.,
11       breaks = breaks,
12       right = FALSE,
13       col = "lightblue",
14       main = "Histogram of Delivery Times",
15       xlab = "Delivery Time (minutes)",
16       ylab = "Frequency",
17       border = "black")
18
19 #04
20 freq <- hist(Delivery_Times$Delivery_Time_.minutes.,
21             breaks = breaks,
22             right = FALSE,
23             plot=FALSE)
24
25 cum_freq <- cumsum(freq$counts)
26
27 plot(breaks[-1],
28      cum_freq,
29      type = 'o',
30      pch = 16,
31      col = "red",
32      main = "Cumulative Frequency Polygon (ogive)",
33      xlab = "Delivery Time",
34      ylab = "Cumulative Frequency")

34:36 (Top Level) R Script
```

```
Console Terminal Background Jobs
R 4.2.2 · C:/Users/it24101556/Desktop/IT24101556/
[1] "C:/Users/it24101556/Desktop/IT24101556/"
> #01
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
> head(Delivery_Times)
  Delivery_Time_.minutes.
1                      34
2                      54
3                      47
4                      29
5                      39
6                      61
> #02
> breaks <- seq(20, 70, length.out = 10)
> hist(Delivery_Times$Delivery_Time_.minutes.,
+      breaks = breaks,
+      right = FALSE,
+      col = "lightblue",
+      main = "Histogram of Delivery Times",
+      xlab = "Delivery Time (minutes)",
+      ylab = "Frequency",
+      border = "black")
> #04
> freq <- hist(Delivery_Times$Delivery_Time_.minutes.,
+             breaks = breaks,
+             right = FALSE,
+             plot=FALSE)
> cum_freq <- cumsum(freq$counts)
> plot(breaks[-1],
+      cum_freq,
+      type = 'o',
+      pch = 16,
+      col = "red",
+      main = "Cumulative Frequency Polygon (ogive)",
+      xlab = "Delivery Time",
+      ylab = "Cumulative Frequency")
```



EnvironmentHistoryConnectionsTutorial

Import Dataset261 MiB

List

RGlobal Environment

Data

Delivery_Times

40 obs. of 1 variable

freq

List of 6

values

breaks

num [1:10] 20 25.6 31.1 36.7 42.2 ...

cum_freq

int [1:9] 2 5 11 20 26 29 35 38 40