

Sri Lanka Institute of Information Technology



Lab Submission
<Lab sheet No 05>

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Probability and Statistics - IT2120

B.Sc. (Hons) in Information Technology

Exercise:

```
> setwd("C:\\Users\\it24100919\\Desktop\\IT24100919")
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
> hist(Delivery_Times$Delivery_Time_.minutes,
+       breaks = seq(20, 70, length.out = 10) ,
+       right = TRUE,
+       col = "lightblue",
+       main = "Histogram of Delivery Times",
+       xlab = "Delivery Time (minutes)",
+       ylab = "Frequency")
> |
```



```
> hist_data <- hist(Delivery_Times$Delivery_Time_.minutes,
+                   breaks = seq(20, 70, length.out = 10),
+                   right = TRUE,
+                   plot = FALSE)
> cum_freq <- cumsum(hist_data$counts)
> upper_bounds <- hist_data$breaks[-1]
> plot(upper_bounds, cum_freq, type = "o",
+       main = "Cumulative Frequency Polygon (Ogive)",
+       xlab = "Delivery Time (minutes)",
+       ylab = "Cumulative Frequency",
+       col = "red")
> |
```

