Sri Lanka Institute of Information

Technology



Lab Submission

Lab sheet 05

**IT24100097**

**S.A Hewapathirana**

**Probability and Statistics| IT2120**

B.Sc. (Hons) in Information Technology

Table of Contents

[Exercise 3](#_Toc207143997)

[1.Import the dataset (’Exercise – Lab 05.txt’) into R and store it in a data frame called ”Delivery Times”. 3](#_Toc207143998)

[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. 3](#_Toc207143999)

[3. Comment on the shape of the distribution. 4](#_Toc207144000)

[4. Draw a cumulative frequency polygon (ogive) for the data in a separate plot. 4](#_Toc207144001)

# Exercise

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

A screenshot of a computer

Description automatically generated

## 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.

A screenshot of a computer

Description automatically generated

A graph of a delivery time

Description automatically generated

## 3. Comment on the shape of the distribution.

The curve shows a bimodal distribution and appears approximately symmetrical. The data spans between 20 to 70 minutes.

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

A screenshot of a computer

Description automatically generated

A graph with a line

Description automatically generated