Sri Lanka Institute of Information

Technology



Lab Submission

Lab sheet 05

**IT23746046**

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**Probability and Statistics| IT2120**

B.Sc. (Hons) in Information Technology

Exercise

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

A close-up of a computer code

Description automatically generated

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 computer code with text

Description automatically generated with medium confidence

A close-up of a number

Description automatically generated

A graph of a delivery time

Description automatically generated

3. Comment on the shape of the distribution.

The distribution is approximately symmetric with a slight positive (right) skew. Most delivery times cluster around 40–45 minutes.

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

A computer screen shot of a computer code

Description automatically generated

A close-up of a computer screen

Description automatically generated

A graph with a line graph

Description automatically generated