Sri Lanka Institute of Information

Technology



Lab Submission

Lab sheet No 08

**IT24101896**

**Abeywickrama J B**

**Probability and Statistics| IT2120**

B.Sc. (Hons) in Information Technology

**Exercise**

1. Calculate the population mean and population standard deviation of the laptop bag weights.

A computer screen shot of a computer program

Description automatically generated

A computer code on a white background

Description automatically generated

2. Draw 25 random samples of size 6 (with replacement) and calculate the sample mean and sample standard deviation for each sample.

A computer code with text

Description automatically generated with medium confidence

A close-up of a text

Description automatically generated

A close-up of a computer code

Description automatically generated

A screenshot of a computer

Description automatically generatedA white background with black text

Description automatically generated

3. Calculate the mean and standard deviation of the 25 sample means and state the relationship of them with true mean and true standard deviation.

A computer code with black text

Description automatically generated

A white background with blue text

Description automatically generated

A screenshot of a computer

Description automatically generated