Sri Lanka Institute of Information

Technology



Lab Submission

Lab sheet No 08

**IT24101818**

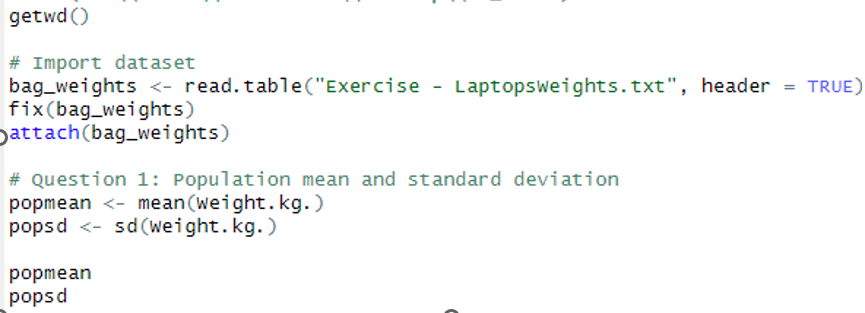
**DILNI J.P.B**

**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 screenshot of a computer code

AI-generated content may be incorrect.

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

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A close-up of a computer code

Description automatically generated

A screenshot of a computer

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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

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