Sri Lanka Institute of Information

Technology

A blue and orange logo

AI-generated content may be incorrect.

Lab Submission

08

**IT24101355**

**Jayalath J.G.H**

**Probability and Statistics | IT2120**

B.Sc. (Hons) in Information Technology

**Exercise**

1. A computer screen shot of a computer code

   AI-generated content may be incorrect.Calculate the population mean and population standard deviation of the laptop bag weights.

A close-up of a white background

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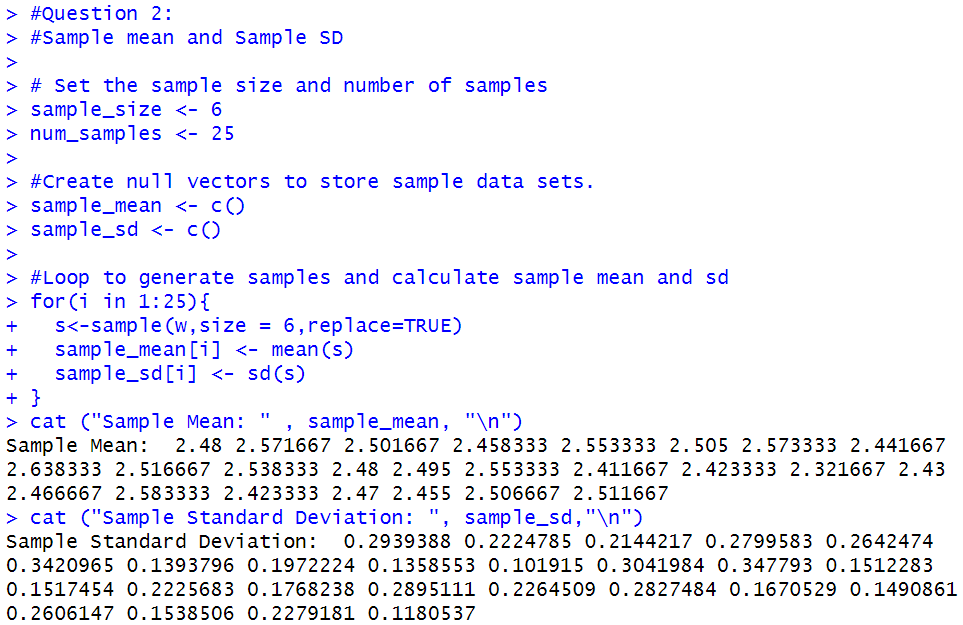
A close-up of a person's face

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

A screenshot of a computer code

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**A close-up of a computer screen

AI-generated content may be incorrect.**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 screenshot of a computer

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