Sri Lanka Institute of Information

Technology

A blue and orange logo

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Lab Submission

08

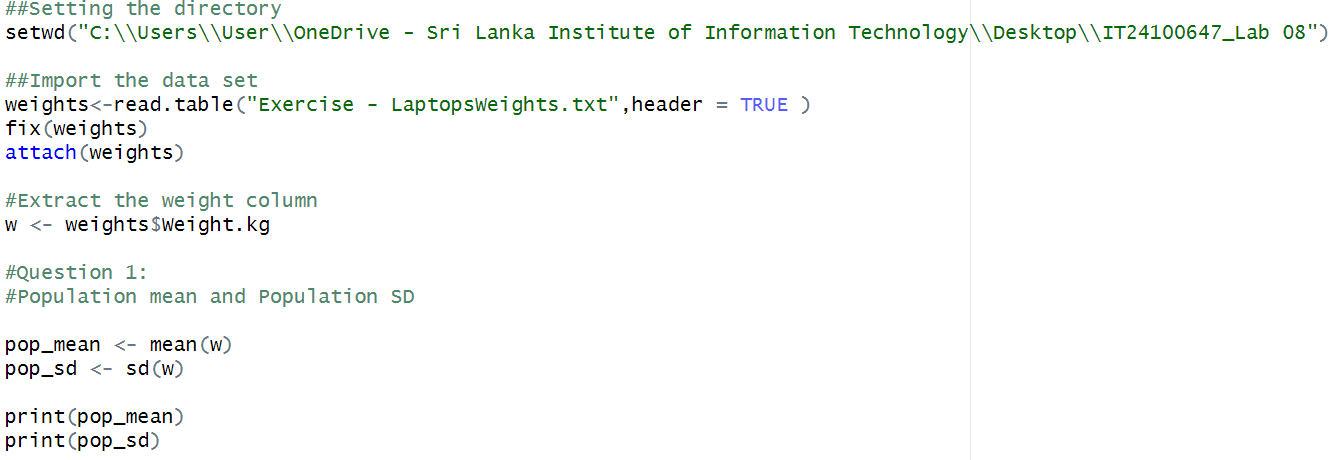
**IT24100647**

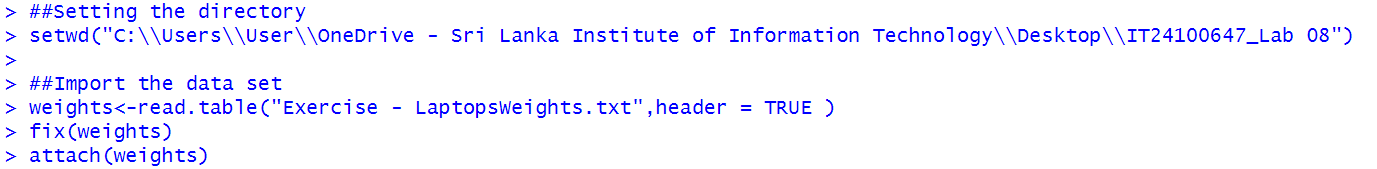
**A.J.M.P.N.Jayasekara**

**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.



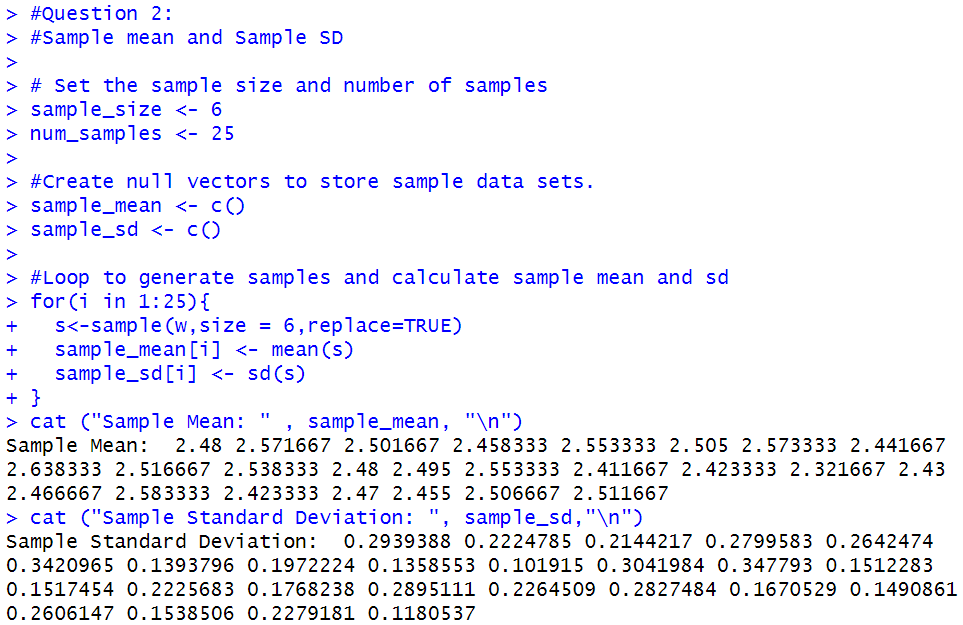
A close-up of a person's face

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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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