Jayawardhana A.T.G

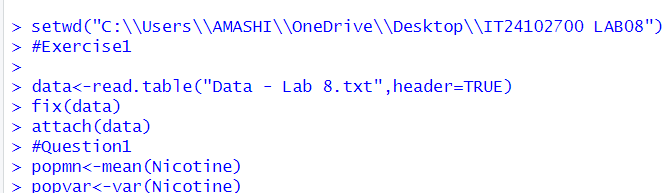
IT24102700 – IT2120

1. Calculate population mean and variance of the dataset.

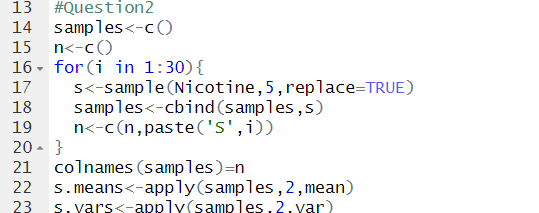
===Exercise1===

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2. Get 30 random samples of size 5, with replacement and calculate sample mean and sample variance for each sample.



A computer screen shot of a computer code

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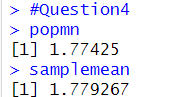
3. Calculate mean and variance of the Sample Means.

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4. Compare and state relationship (if any) Population Mean and the Mean of Sample Means.



5. Compare and state relationship (if any) Population Variance and the Variance of Sample Means

A math equation with black text

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A close-up of a number

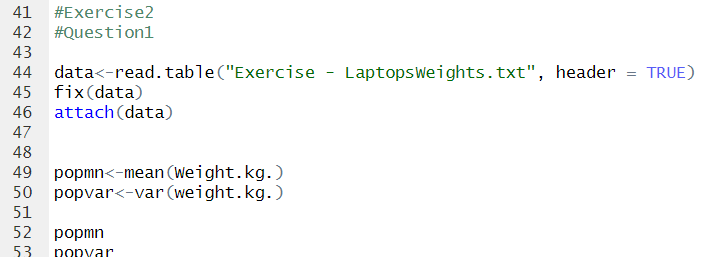
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A screenshot of a computer

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===Exercise2===

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



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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 program

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A screenshot of a computer code

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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 numbers and symbols

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