**IT24103034**

**Wickramarathna A.W.T.S.**

**PS Lab Sheet 08**

**Exercise**

A computer screen shot of a program

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

A close-up 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 black text

AI-generated content may be incorrect.

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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 black text on a white background

AI-generated content may be incorrect.

A white background with blue text

AI-generated content may be incorrect.