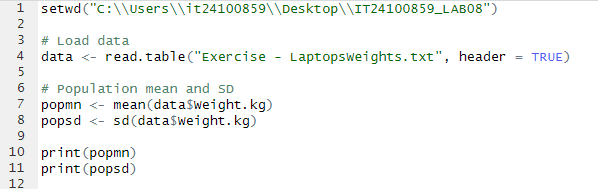
**IT24100859**

**Lakshani W.K.D.U**

**PS Lab Sheet 08**

**Exercise**

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



A computer screen shot of a computer program

Description automatically generated

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

Description automatically generated

A black and blue text

Description automatically generated

A screenshot of a computer program

Description automatically generated

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 screen shot of a computer

Description automatically generatedA computer code with blue text

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated