Sri Lanka Institute of Information

Technology



Lab Submission

<Lab sheet 08>

**<IT24104322>**

**<Dilrukshi.V>**

**PS | IT2120**

B.Sc. (Hons) in Information Technology

Exercise

**A screenshot of a computer program

Description automatically generated**

**A screenshot of a computer

Description automatically generated**

**A computer code with text

Description automatically generated**

**A screenshot of a computer program

Description automatically generated  
A screenshot of a computer

Description automatically generated**

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

Mean:

**  
A screenshot of a computer

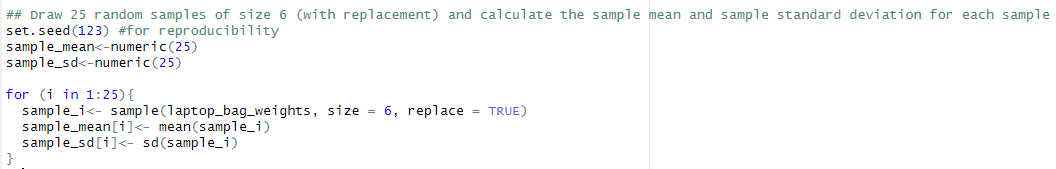
Description automatically generated**

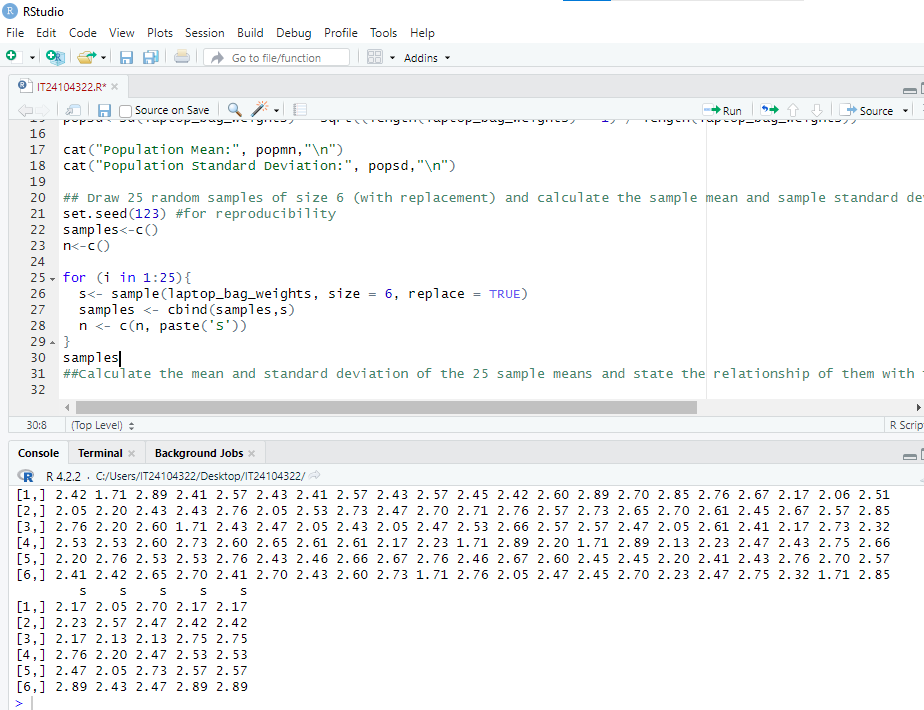
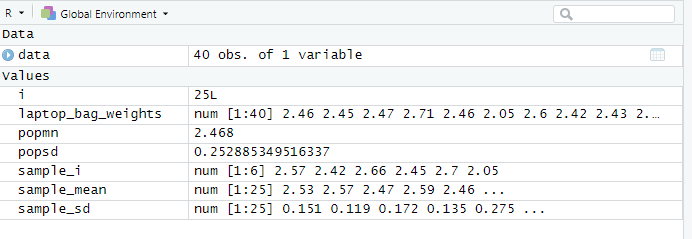
**Standard Deviation:  
**

A screenshot of a computer

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.





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

