**PS-Lab 8**

**IT24101205- Mahalonage C A S**

**Exercise**

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

A screenshot of a computer program

Description automatically generated

A computer code with numbers and letters

Description automatically generated

1. **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 text

Description automatically generated with medium confidence

A screenshot of a table

Description automatically generated

A table with numbers and letters

Description automatically generated

1. **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 black text

Description automatically generated

A close-up of a computer code

Description automatically generated