Sri Lanka Institute of Information

Technology



Lab Submission

Lab sheet No 09

**IT24101927**

**Liyanage J. L. K. L.**

**IT2120 - Probability and Statistics**

B.Sc. (Hons) in Information Technology

**Exercise**

1. Assume that the time taken to bake a batch of cookies is normally distributed with mean 45 minutes and standard deviation 2 minutes.

i. Generate a random sample of size 25 for the baking time.

A white background with black text and numbers

AI-generated content may be incorrect.

**Answer: -**

A close-up of numbers

AI-generated content may be incorrect.

ii. Test whether the average baking time is less than 46 minutes at a 5% level of significance.

A number and a mathematical equation

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Answer: -

A close-up of a computer code

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