Sri Lanka Institute of Information

Technology



Lab Submission

<Lab sheet 09>

**<IT24103815>**

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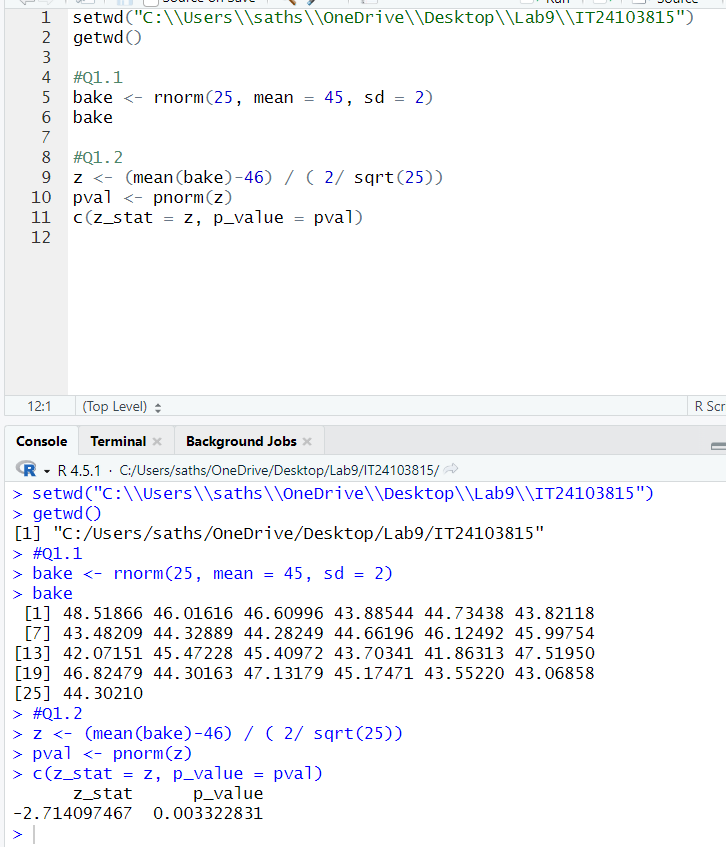
**IT2120 - Probability and Statistics**

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.



Answer: -

A screenshot of a computer program

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 screenshot of a computer program

AI-generated content may be incorrect.

Answer: -

A screenshot of a computer program

AI-generated content may be incorrect.