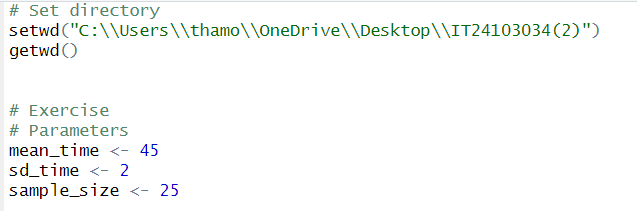
**IT2120- Probability and Statistics**

**Lab Exercise 9 (Statistical Inference)**

**IT24103034**

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.

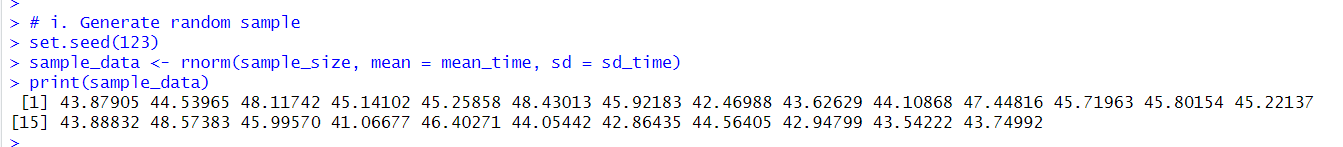


A computer screen shot of a computer

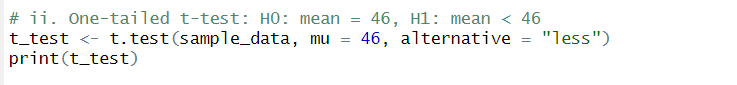
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ii. Test whether the average baking time is less than 46 minutes at a 5% level of significance



A screenshot of a computer code

AI-generated content may be incorrect.