Sri Lanka Institute of Information Technology



Lab Submission <Lab sheet 09>

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Probability and Statistics | IT2120

B.Sc. (Hons) in Information Technology

Exercise

44.93334

- 1. Assume that the time taken to bake a batch of cookies is normally distributed with mean 45 minutes and standard deviation of 2 minutes.
- i. Generate a random sample of size 25 for the baking time.

```
#i. Generate a random sample of size 25 for the baking time.
set.seed(123)
y<- rnorm(25,mean=45,sd=2)</pre>
```

```
Values
y num [1:25] 43.9 44.5 48.1 45.1 45.3 ...
```

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