

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

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1 #Question
2 #Part 1
3 #To generate random numbers from a normal distribution, we can use 'rnorm' command as follows.
4 set.seed(123)
5 baking <- rnorm(25, mean = 45, sd = 2)
6 baking
7
8
9 #Part 2
10 t.test(baking, mu = 46, alternative = "less")
11
12
```

```
> #Part 2
> t.test(baking, mu = 46, alternative = "less")

One Sample t-test

data:  baking
t = -2.8167, df = 24, p-value = 0.004776
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
 -Inf 45.58124
sample estimates:
mean of x
44.93334
```