

# Sri Lanka Institute of Information Technology



## Lab Submission Lab sheet 9

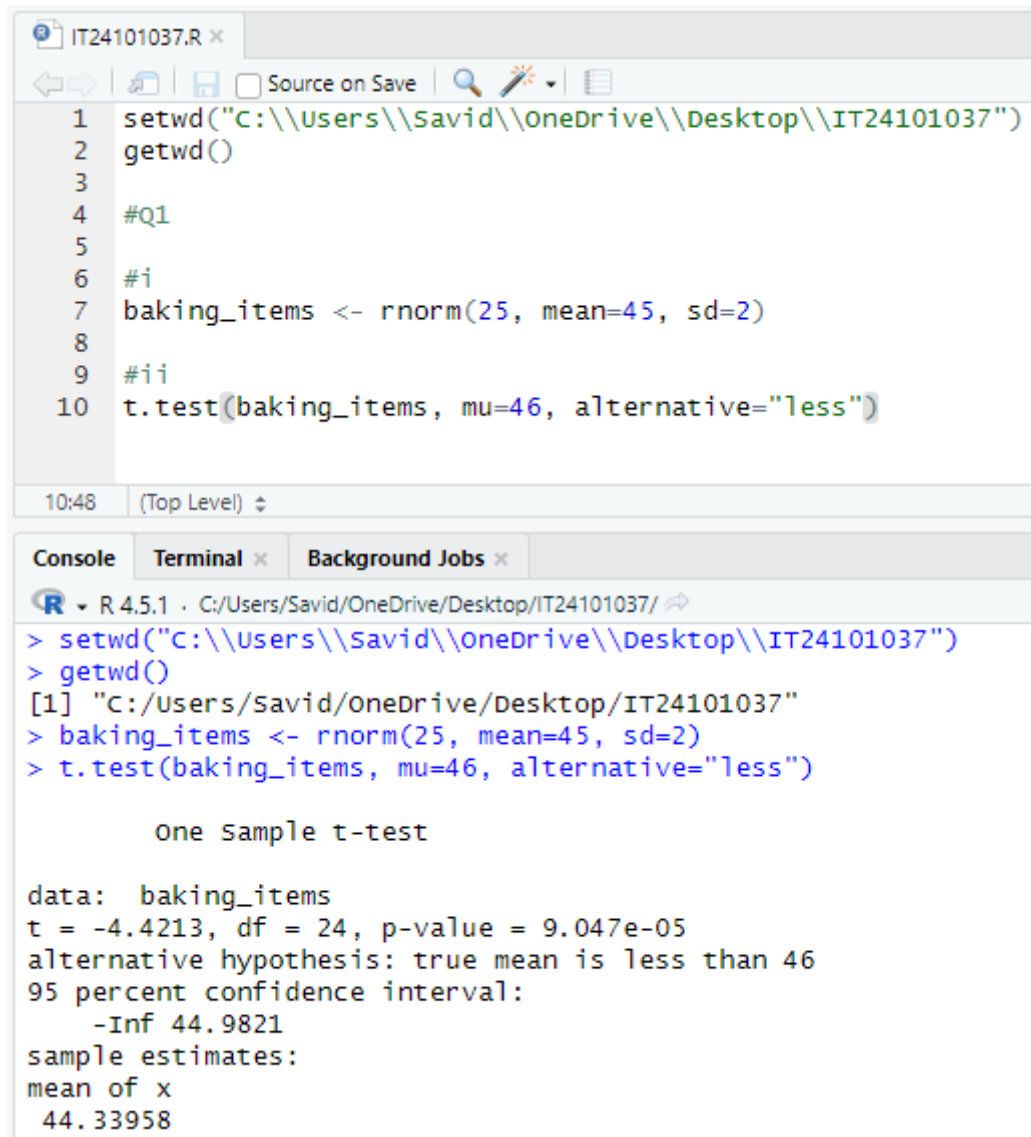
**IT24101037**

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**Probability and Statistics | IT2120**

**B.Sc. (Hons) in Information Technology**

## Exercise 2



The screenshot shows the R Studio interface. The top pane displays a script file named 'IT24101037.R' with the following code:

```
1 setwd("C:\\Users\\Savid\\OneDrive\\Desktop\\IT24101037")
2 getwd()
3
4 #Q1
5
6 #i
7 baking_items <- rnorm(25, mean=45, sd=2)
8
9 #ii
10 t.test(baking_items, mu=46, alternative="less")
```

The bottom pane shows the console output for the executed code:

```
R 4.5.1 · C:/Users/Savid/OneDrive/Desktop/IT24101037/
> setwd("C:\\Users\\Savid\\OneDrive\\Desktop\\IT24101037")
> getwd()
[1] "C:/Users/Savid/OneDrive/Desktop/IT24101037"
> baking_items <- rnorm(25, mean=45, sd=2)
> t.test(baking_items, mu=46, alternative="less")

One Sample t-test

data:  baking_items
t = -4.4213, df = 24, p-value = 9.047e-05
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
 -Inf 44.9821
sample estimates:
mean of x
 44.33958
```