SLIIT UNI

Faculty of Computing

Year 2 Semester 1 (2025)

IT2120 - Probability and Statistics — Lab Sheet 09

IT24104092.R

Source on Save

```
1  setwd("C:\\Users\\acer\\OneDrive\\Desktop\\IT24104092")
2  getwd()
3
4  #random sample of size 25 for the baking time
5  sample <- rnorm(25, mean =45, sd =2)
6
7  # Test whether the average baking time is less than 46 minutes at a 5% level of significance.
8  t.test (sample, mu=46, alternative = "less")
9
```

9:1 (Top Level)

Console | Terminal | Background Jobs

R 4.5.1 · C:/Users/acer/OneDrive/Desktop/IT24104092/

```
> setwd("C:\\Users\\acer\\OneDrive\\Desktop\\IT24104092")
> getwd()
[1] "C:/Users/acer/OneDrive/Desktop/IT24104092"
> sample <- rnorm(25, mean =45, sd =2)
> t.test (sample, mu=46, alternative = "less")

        One Sample t-test

data:  sample
t = -3.5935, df = 24, p-value = 0.0007305
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
     -Inf 45.18473
sample estimates:
mean of x
 44.44384

>
```