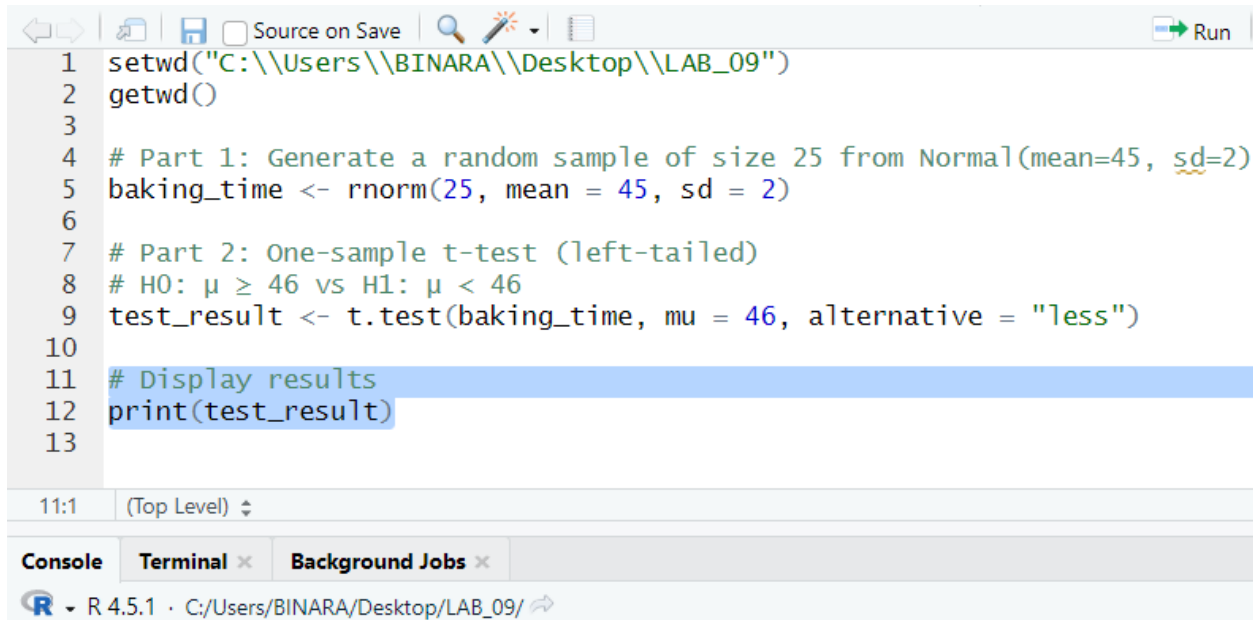



Lab_09



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IT24100227



```
1 setwd("C:\\Users\\BINARA\\Desktop\\LAB_09")
2 getwd()
3
4 # Part 1: Generate a random sample of size 25 from Normal(mean=45, sd=2)
5 baking_time <- rnorm(25, mean = 45, sd = 2)
6
7 # Part 2: One-sample t-test (left-tailed)
8 # H0:  $\mu \geq 46$  vs H1:  $\mu < 46$ 
9 test_result <- t.test(baking_time, mu = 46, alternative = "less")
10
11 # Display results
12 print(test_result)
13
```

11:1 (Top Level) 

Console Terminal  Background Jobs 

 R 4.5.1 · C:/Users/BINARA/Desktop/LAB_09/ 

```
> setwd("C:\\Users\\BINARA\\Desktop\\LAB_09")
> getwd()
[1] "C:/Users/BINARA/Desktop/LAB_09"
> # Part 1: Generate a random sample of size 25 from Normal(mean=45, sd=2)
> baking_time <- rnorm(25, mean = 45, sd = 2)
> # Part 2: One-sample t-test (left-tailed)
> # H0:  $\mu \geq 46$  vs H1:  $\mu < 46$ 
> test_result <- t.test(baking_time, mu = 46, alternative = "less")
> # Display results
> print(test_result)
```

One Sample t-test

```
data:  baking_time
t = -3.4205, df = 24, p-value = 0.001121
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
 -Inf 45.38588
sample estimates:
mean of x
 44.77132
```