```
> setwd("C:\\Users\\MCS\\OneDrive - Sri Lanka Institute of Information Technology\\Desktop\\II24103399 Lab9")
[1] "C:/Users/MCS/OneDrive - Sri Lanka Institute of Information Technology/Desktop/IT24103399 Lab9"
> set.seed(123)
> sample size <- 25
> mu <- 45
> sigma <- 2
> baking_times <- rnorm(sample_size, mean = mu, sd = sigma)
> print (baking times)
[1] 43.87905 44.53965 48.11742 45.14102 45.25858 48.43013 45.92183 42.46988
[9] 43.62629 44.10868 47.44816 45.71963 45.80154 45.22137 43.88832 48.57383
[17] 45.99570 41.06677 46.40271 44.05442 42.86435 44.56405 42.94799 43.54222
[25] 43.74992
> t_test_result <- t.test(baking_times, mu = 46, alternative = "less")</pre>
> print(t_test_result)
         One Sample t-test
data: baking_times
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
```

