PS lab 09 – IT24100139

IT24100139_PS_Lab_09.R*

Source on Save

```r
setwd('F:\\sliit\\2nd year\\1 sem\\Probability and Statistics - IT2120\\week 11\\IT24100139')

# Exercise

# i.
baking_times <- rnorm(25, mean = 45, sd = 2)
print(baking_times)

# ii.
test_result <- t.test(baking_times, mu = 46, alternative = "less")
print(test_result)
```

13:1 (Top Level)

Console | Terminal | Background Jobs

R 4.5.1 · F:/sliit/2nd year/1 sem/Probability and Statistics - IT2120/week 11/IT24100139/

```
> setwd('F:\\sliit\\2nd year\\1 sem\\Probability and Statistics - IT2120\\week 11\\IT24100139')
>
> # Exercise
>
> # i.
> baking_times <- rnorm(25, mean = 45, sd = 2)
> print(baking_times)
 [1] 43.37709 41.72751 43.83273 44.73056 44.75154 43.01455 48.29550 41.63056 42.18572 44.45495 47.864
[20] 44.60476 44.54193 44.66134 47.25868 45.16366 45.81357
>
> # ii.
> test_result <- t.test(baking_times, mu = 46, alternative = "less")
> print(test_result)

        One Sample t-test

data:  baking_times
t = -3.2662, df = 24, p-value = 0.001635
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
     -Inf 45.41786
sample estimates:
mean of x
 44.77752

>
```