IT24103580

Lab 09

Script

```
setwd("C:\\Users\\ASUS\\Desktop\\IT24103580")
getwd()

#1
set.seed(123)
sample_data <- rnorm(25, mean = 45, sd = 2)
print("Random Sample: ")
print(sample_data)

#2
t_result <- t.test(sample_data, mu = 46, alternative = "less")
print("T-Test Result:")
print(t_result)|</pre>
```

Console

```
> getwd()
[1] "D:/SLIIT/2nd year/PS/Lab_Submission/IT24103497/Lab_09"
> set.seed(123)
> sample_data <- rnorm(25, mean = 45, sd = 2)
> print("Random Sample: ")
[1] "Random Sample: "
> #2
> t_result <- t.test(sample_data, mu = 46, alternative = "less")</pre>
> print("T-Test Result:")
[1] "T-Test Result:"
> print(t_result)
        One Sample t-test
data: sample_data
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
> |
```