

Sri Lanka Institute of Information Technology



Lab Submission
Lab sheet No 9

IT24104110

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Probability and Statistics - IT2120

B.Sc. (Hons) in Information Technology

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

R • Global Environment

Data

t_test List of 10

Values

sample num [1:25] 43.8 48.2 44.5 44.3 46 ...

Files Plots Packages Help Viewer Presentation

Zoom Export

```
1 sample <- rnorm(n = 25, mean = 45, sd = 2)
2 print(sample)
3
4
5 t_test <- t.test(sample, mu = 46, alternative = "less")
6 print(t_test)
7
8
```

8.1 (Top Level) R Script

Console Terminal Background Jobs

```
<R> R 4.5.1 ~ />
>
> t_test <- t.test(sample, mu = 46, alternative = "less")
> print(t_test)

One Sample t-test

data: sample
t = -4.2109, df = 24, p-value = 0.0001544
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
 -Inf 45.28284
sample estimates:
mean of x
44.79205
>
```