



Faculty of Computing

Year 2 Semester 1 (2025)

IT2120 - Probability and Statistics

Lab Sheet 09

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

IT24104154_PS_Lab_09.R

```
1 setwd("C:\\Users\\Tharusha\\Desktop\\PS_LAB_9")
2 getwd()
3
4 #random sample of size 25 for the baking time
5 sample <- rnorm(25, mean =45, sd =2)
6
7 # Test whether the average baking time is less than 46 minutes at a 5% level of signi
8 t.test (sample, mu=46, alternative = "less")
9
```

Environment History Connections Tutorial

R 146 MiB

Global Environment

values

sample	num [1:25]
	44.8 44.7 43.9 40.5 47.1 ...

Console Terminal Background Jobs

R 4.5.1 C:/Users/Tharusha/Desktop/PS_LAB_9

```
> setwd("C:\\Users\\Tharusha\\Desktop\\PS_LAB_9")
> getwd()
[1] "C:/Users/Tharusha/Desktop/PS_LAB_9"
> #random sample of size 25 for the baking time
> sample <- rnorm(25, mean =45, sd =2)
> # Test whether the average baking time is less than 46 minutes at a 5% level of signi
> t.test (sample, mu=46, alternative = "less")

one sample t-test

data: sample
t = -2.1436, df = 24, p-value = 0.0212
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
 -Inf 45.79556
sample estimates:
mean of x
44.98722
>
```

Files Plots Packages Help Viewer Presentation

New Folder New File Delete Rename More

C:/Users/Tharusha/Downloads

Name	Size	Modified
(2025-Y2-S1-MLB-B1G2-08) PG18_Activity.pdf	462.6 KB	Sep 5, 2025, 1:01 PM
(2025-Y2-S1-MLB-B1G2-08) PG18_Scrum.pdf	268.5 KB	Aug 16, 2025, 5:00 PM
(2025-Y2-S1-MLB-B1G2-08) PG18_UseCase.pdf	549 KB	Aug 23, 2025, 5:43 PM
[Start].ini	361 B	Sep 1, 2025, 11:45 AM
~\$24104154_Lab_3 (1).pdf	162 B	Nov 10, 2024, 2:06 PM
~\$24104217_DM_Lab04 (1).pdf	162 B	Mar 16, 2025, 12:27 PM
~\$LAB5.docx	162 B	Mar 16, 2025, 12:27 PM
~WRL0005.tmp	152.1 KB	Mar 16, 2025, 12:29 PM
1.1_2025-Y2-S1-MLB-B1G1-06_Activity.pdf	507.7 KB	Sep 1, 2025, 5:24 PM
4u-Ajantha-		
4u-Ajantha-.zip	36.9 KB	Nov 14, 2024, 12:28 PM
4u-Amantha-		
4u-Amantha-.zip	46.6 KB	Nov 14, 2024, 12:28 PM

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