

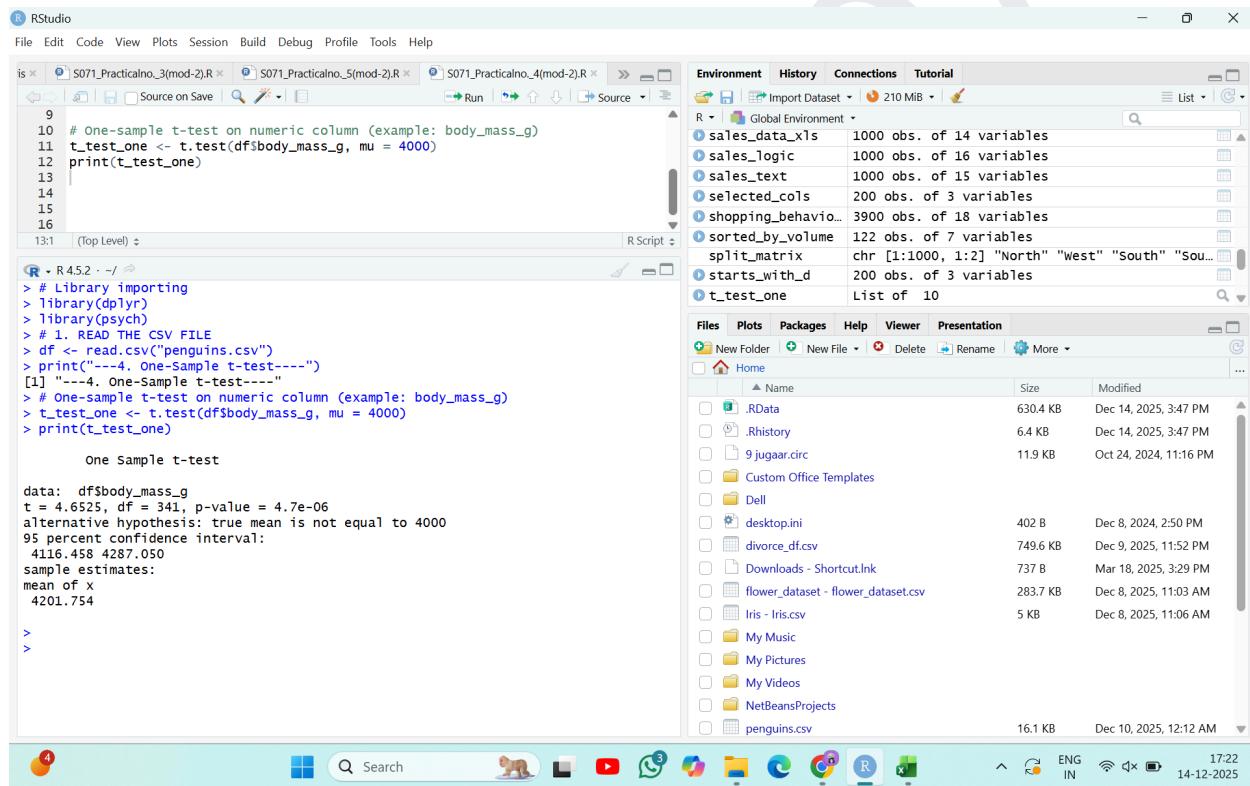
SHETH L.U.J AND SIR M.V COLLEGE

Subject: Data Analysis with SAS / SPSS /R

Practical no. 4

Aim: Performing one-sample t-tests using t.test() (R)

Outputs→



RStudio

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R Script

```
is × S071_Practicalno_3(mod-2).R × S071_Practicalno_5(mod-2).R × S071_Practicalno_4(mod-2).R ×
  Source on Save Run Source
9
10 # One-sample t-test on numeric column (example: body_mass_g)
11 t_test_one <- t.test(df$body_mass_g, mu = 4000)
12 print(t_test_one)
13
14
15
16
13:1 (Top Level) : R Script
```

R > R 4.5.2 · -/ →

```
> # Library importing
> library(dplyr)
> library(psych)
> # 1. READ THE CSV FILE
> df <- read.csv("penguins.csv")
> print("----4. One-Sample t-test----")
[1] "----4. One-Sample t-test---"
> # One-sample t-test on numeric column (example: body_mass_g)
> t_test_one <- t.test(df$body_mass_g, mu = 4000)
> print(t_test_one)
```

One Sample t-test

```
data: df$body_mass_g
t = 4.6525, df = 341, p-value = 4.7e-06
alternative hypothesis: true mean is not equal to 4000
95 percent confidence interval:
 4116.458 4287.050
sample estimates:
mean of x
4201.754
```

Environment History Connections Tutorial

Global Environment

- sales_data.xls 1000 obs. of 14 variables
- sales_logic 1000 obs. of 16 variables
- sales_text 1000 obs. of 15 variables
- selected_cols 200 obs. of 3 variables
- shopping_behavior... 3900 obs. of 18 variables
- sorted_by_volume 122 obs. of 7 variables
- split_matrix chr [1:1000, 1:2] "North" "West" "South"
- starts_with_d 200 obs. of 3 variables
- t_test_one List of 10

Files Plots Packages Help Viewer Presentation

New Folder New File Delete Rename More

Name	Size	Modified
.RData	630.4 KB	Dec 14, 2025, 3:47 PM
.History	6.4 KB	Dec 14, 2025, 3:47 PM
9 jugaar.circ	11.9 KB	Oct 24, 2024, 11:16 PM
Custom Office Templates		
Dell		
desktop.ini	402 B	Dec 8, 2024, 2:50 PM
divorce_dfcv	749.6 KB	Dec 9, 2025, 11:52 PM
Downloads - Shortcut.lnk	737 B	Mar 18, 2025, 3:29 PM
flower_dataset - flower_dataset.csv	283.7 KB	Dec 8, 2025, 11:03 AM
Iris - Iris.csv	5 KB	Dec 8, 2025, 11:06 AM
My Music		
My Pictures		
My Videos		
NetBeansProjects		
penguins.csv	16.1 KB	Dec 10, 2025, 12:12 AM

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