

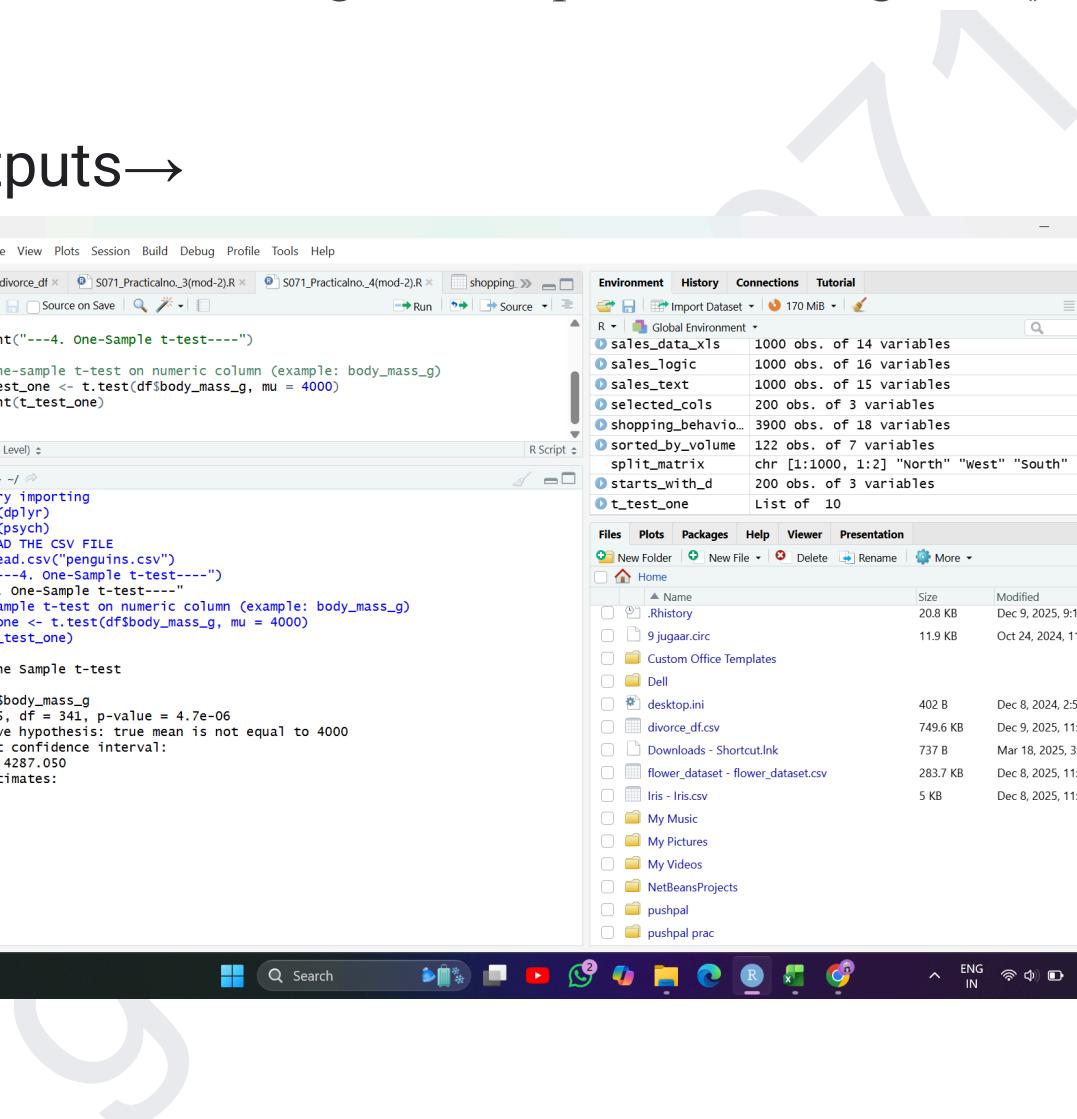
SHETH L.U.J AND SIR M.V COLLEGE

Subject: Data Analysis with SAS / SPSS /R

Practical no. 4

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

Outputs→



The screenshot shows the RStudio environment. The left pane displays an R script with code for performing a one-sample t-test on the 'body_mass_g' column of the 'penguins' dataset. The right pane shows the Global Environment and File Explorer panes.

R Script content:

```
7 print("----4. One-sample t-test----")
8
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
```

```
[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
```

Global Environment:

- sales_data.xls
- sales_logic
- sales_text
- selected_cols
- shopping_behavior
- sorted_by_volume
- split_matrix
- starts_with_d
- t_test_one

File Explorer:

- Home
 - .Rhistory (20.8 KB, Dec 9, 2025, 9:14 AM)
 - 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.df.csv (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
 - pushpal
 - pushpal prac