

SHETH L.U.J & SIR M.V COLLEGE OF SCIENCE

SUBJECT : Data Analysis with SAS / SPSS /R

AIM : Performing independent two-sample t-tests using `t.test()` with grouping (R).

OUTPUT

The image displays two screenshots of the RStudio interface, showing the results of a statistical analysis.

Session 1 (Top):

```

> print("--- 5. Independent Two-sample t-test ---")
[1] "--- 5. Independent Two-Sample t-test ---"
>
> df <- read.csv("github_trending_repos.csv")
> df$Star_Group <- ifelse(df$stars >= median(df$stars, na.rm = TRUE),
+                           "High_Stars",
+                           "Low_Stars")
> t_test_two <- t.test(forks ~ Star_Group, data = df)
> print(t_test_two)

Welch Two Sample t-test

data: forks by Star_Group
t = 10.464, df = 1574.7, p-value < 2.2e-16
alternative hypothesis: true difference in means between group High_Stars and group Low_Stars is not equal to 0
95 percent confidence interval:
 3244.908 4742.108
sample estimates:
mean in group High_Stars mean in group Low_Stars
      5074.151          1080.643
> |

```

Session 2 (Bottom):

owner	repo_name	full_name	description
1 sansan0	TrendRadar	sansan0/TrendRadar	告别信息过载，AI 助你看懂新闻资讯热点，简单易用。
2 google	adk-go	google/adk-go	An open-source, code-first Go toolkit for building, evaluating, and running AI models.
3 TapXWorld	ChinaTextbook	TapXWorld/ChinaTextbook	所有小初高、大学PDF教材。
4 yeongpin	cursor-free-vip	yeongpin/cursor-free-vip	[Support 0.49.x] (Reset Cursor AI MachineID & Bypass Node Version Manager - POSIX-compliant bash script)
5 nvm-sh	nvm	nvm-sh/nvm	The Cloud Native Application Proxy
6 traefik	traefik	traefik/traefik	[EMNLP2025] "LightRAG: Simple and Fast Retrieval-Augmented Generation for Large Language Models"
7 HKUDS	LightRAG	HKUDS/LightRAG	A list of open source games.
8 bobeff	open-source-games	bobeff/open-source-games	verf: Volcano Engine Reinforcement Learning for LLMs:
9 volcengine	verl	volcengine/verl	Open-Source Memory Engine for LLMs, AI Agents & I
10 MemoriLabs	Memori	MemoriLabs/Memori	Curated coding interview preparation materials for beginners.
11 yangshun	tech-interview-handbook	yangshun/tech-interview-handbook	Send a phone call from AI agent, in an API call. Or, directly run Windows Subsystem For Android on your Windows machine.
12 microsoft	call-center-ai	microsoft/call-center-ai	Run Windows Subsystem For Android on your Windows machine.
13 MustardChef	WSABuilds	MustardChef/WSABuilds	Powerful web graphics runtime built on WebGL, WebVR, and WebAssembly.
14 playcanv	engine	playcanv/engine	Collection of publicly available IPTV channels from all over the world.
15 iptv-org	iptv	iptv-org/iptv	Milvus is a high-performance, cloud-native vector database.
16 Zie619	n8n-workflows	Zie619/n8n-workflows	Milvus is a high-performance, cloud-native vector database.
17 milvus-io	milvus	milvus-io/milvus	Frame profiler
18 wolfpid	tracy	wolfpid/tracy	Open source AI agents for generating text.

Showing 1 to 19 of 1,587 entries, 14 total columns

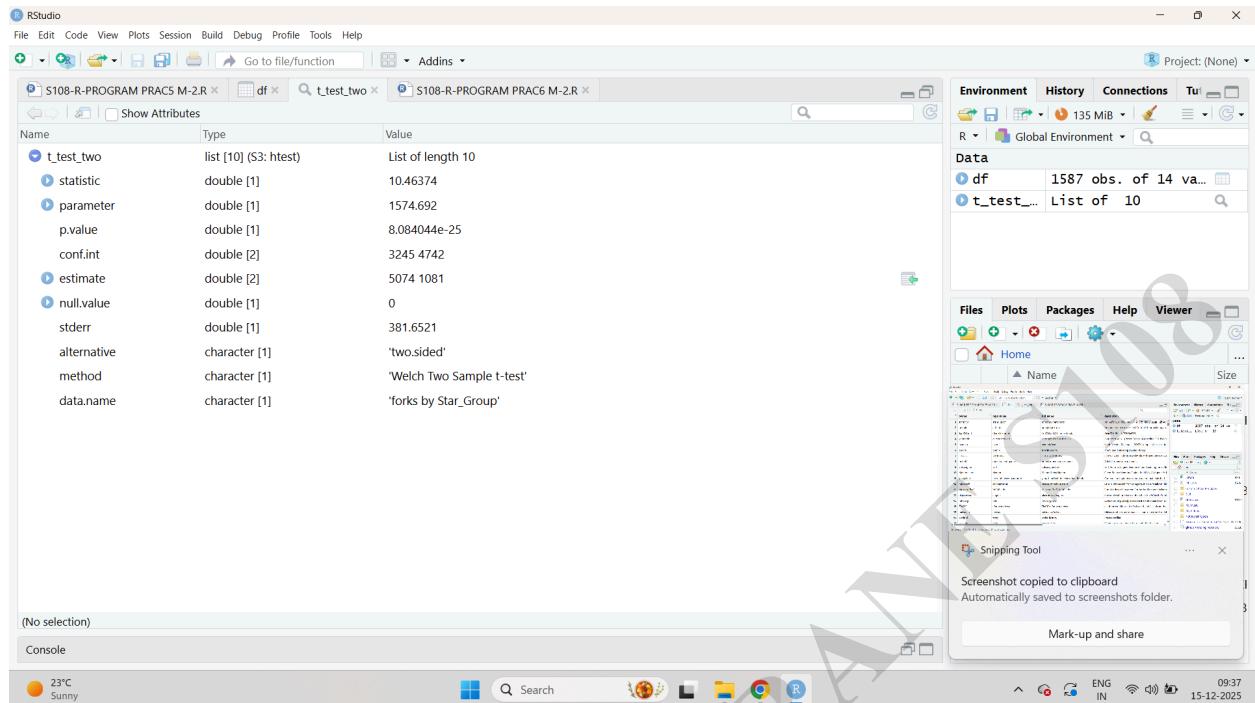
Environment View (Both Sessions):

- df: 1587 obs. of 14 variables
- t_test...: List of 10

File Explorer View (Both Sessions):

- .RData
- .Rhistory
- Custom Office Templates
- Dell
- desktop.ini
- My Music
- My Videos
- NetBeansProjects
- Shortcut to Documents (OneDrive - P)
- github_trending_repos.csv

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The screenshot shows the RStudio interface with the following details:

- Environment View:** Displays the structure of the `t_test_two` object, which is a list of length 10 containing various statistical values.
- Data View:** Shows the `df` dataset with 1587 observations and 14 variables, and the `t_test_two` object as a list of 10 elements.
- Plots View:** Contains several small plots related to the t-test results.
- Console View:** Shows the command `t.test(forky ~ Star_Group)` and its output, including the Welch Two Sample t-test results.
- Bottom Status Bar:** Includes weather information (23°C, Sunny), system icons, and the date/time (15-12-2025, 09:37).

