

RStudio

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Go to file/function Addins

Lab_10.R

```
1 setwd("C:/Users/USER/Desktop/Lab_10")
2
3 snacks <- c(35, 25, 20, 20)
4 names(snacks) <- c("A", "B", "C", "D")
5
6 print("Observed frequencies for each snack type:")
7 print(snacks)
8
9 test_result <- chisq.test(snacks, p = rep(1/4, 4))
10
11 print("Chi-Square Test Result:")
12 print(test_result)
13
14 if (test_result$p.value > 0.05) {
15   print("Conclusion: Fail to reject H0. Snack types are chosen equally likely.")
16 } else {
17   print("Conclusion: Reject H0. Snack types are not chosen equally likely.")
18 }
19
```

Console

```
R - R 4.3.1 - C:/Users/USER/Desktop/Lab_10/
[1] "Conclusion: Fail to reject H0. Snack types are chosen equally likely."
> if (test_result$p.value > 0.05) {
+   print("Conclusion: Fail to reject H0. Snack types are chosen equally likely.")
+ } else {
+   print("Conclusion: Reject H0. Snack types are not chosen equally likely.")
+ }
[1] "Conclusion: Fail to reject H0. Snack types are chosen equally likely."
> print("Conclusion: Reject H0. Snack types are not chosen equally likely.")
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+   print("Conclusion: Fail to reject H0. Snack types are chosen equally likely.")
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+   print("Conclusion: Reject H0. Snack types are not chosen equally likely.")
+ }
[1] "Conclusion: Fail to reject H0. Snack types are chosen equally likely."
>
```

Environment

Global Environment

Data

test_result List of 9

Values

snacks Named num [1:4] 35 25 20 20

Files Plots Packages Help Viewer Presentation

Home

Name	Size	Modified
Rhistory	0 B	Oct 22, 2025, 7:28 PM
Complete_Scenarios_1_to_6[1].docx	28.4 KB	Aug 23, 2025, 12:37 PM
Custom Office Templates		
desktop.ini	402 B	Mar 9, 2025, 10:33 AM
Doc1.pdf	373.5 KB	Jun 16, 2025, 3:10 PM
dsaa_f[1].pdf	1.2 MB	Jun 19, 2025, 4:55 PM
final_processed.pdf	1.3 MB	Oct 21, 2025, 1:27 PM
Finance Executive_Test Case ID.docx	13.5 KB	Sep 28, 2025, 10:32 PM
IP.docx	684.1 KB	Jun 16, 2025, 9:47 AM
IP.pdf	665.2 KB	Jun 16, 2025, 10:14 AM
IT24100603_LAB_08.R	0 B	Sep 26, 2025, 9:49 PM
IT24100603.docx	436.5 KB	Jun 14, 2025, 5:25 PM
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Lab_09.docx	138.5 KB	Oct 9, 2025, 10:44 AM
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Console

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[1] "Observed frequencies for each snack type:"
> print(snacks)
 A B C D
35 25 20 20
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> print("Chi-Square Test Result:")
[1] "Chi-Square Test Result:"
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RStudio interface showing a script, console output, and environment pane.

Script Editor:

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18 }
19
```

Console:

```
> print("Observed frequencies for each snack type:")
[1] "Observed frequencies for each snack type:"
> print(snacks)
 A B C D
35 25 20 20
> test_result <- chisq.test(snacks, p = rep(1/4, 4))
> print("Chi-Square Test Result:")
[1] "Chi-Square Test Result:"
> print(test_result)

      Chi-squared test for given probabilities

data:  snacks
X-squared = 6, df = 3, p-value = 0.1116
```

Environment Pane:

Global Environment

Data

test_result List of 9

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