

ACADGILD

SESSION 9: Statistical Inference

Assignment 2

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1. Introduction

This assignment will help you understand the concepts learnt in the session.

2. Objective

This assignment will test your skills on theorems and tests in R.

3. Prerequisites

Not applicable.

4. Associated Data Files

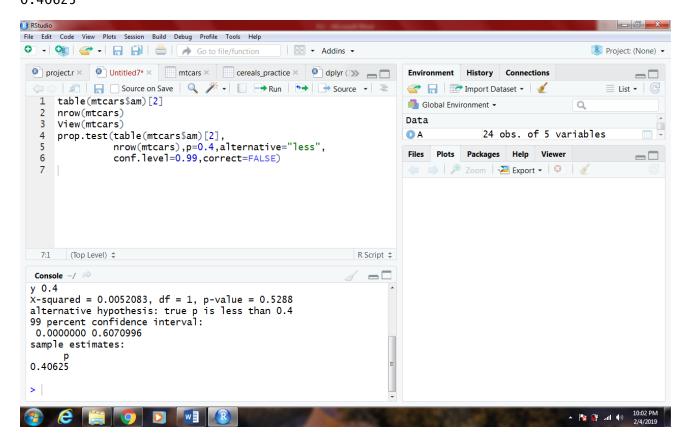
Not applicable.

5. Problem Statement

- 1. Calculate the p-value for the test in Problem no 2.
- 2. How do you test the proportions and compare against hypothetical props? Test hypothesis: proportion of automatic cars is 40%

Data Analytics

```
X-squared = 0.0052083, df = 1, p-value = 0.5288
alternative hypothesis: true p is less than 0.4
99 percent confidence interval:
    0.0000000    0.6070996
sample estimates:
    p
0.40625
```



6. Expected Format

- 1. R file should be submitted where applicable.
- 2. R file should be in PDF or in .r format
- 3. Proper screenshots of the outputs should be submitted as well
- 4. The r codes, if submitted in any other format, will be subjected to deduction in marks

Note: Your solution will not be entertained if it is any other format, e.g., .zip, .doc, .rtf etc.

7. Approximate Time to Complete Task

40 mins.