# ASSIGNMENT 5.2

## 5.PROBLEM STATEMENT

### 1. Calculate the p value for the test in problem 2.

### 2. How do you test the proportions and compare against hypothetical props? Test hypothesis: proportion of automatic cars is 40%.

Ans:- To test the proportion and compare against hypothetical props, we follow the following steps:-

1. Design HO & Ha
2. Design LEVEL OF SIGNIFICANCE
3. Calculate TEST STATISTICS
4. Compare TEST STATISTICS with T critical
5. Decide based on p-value (observed significant value)
6. Conclude = REJECT HO, ACCEPT HO.

Test hypothesis:- automatic cars is 40%

HO : 40

t.test(mu = 40)