

Session 9 – Statistical

Inference

Assignment - 2



Contents

[Introduction](#page3) [2](#page3)



[Objective](#page3) [2](#page3)



[Prerequisites](#page3) [2](#page3)



[Associated Data Files](#page3) [2](#page3)



[Problem Statement](#page3) [2](#page3)



[Expected Output](#page3) [2](#page3)



|  |  |
| --- | --- |
| Copyrights© 2017, AcadGild. All Rights Reserved | 1 |
|  |  |



**Introduction**



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

**Objective**



This assignment will test your skills on Theorems and Tests in R.

**Prerequisites**



Not Applicable

**Associated Data Files**



Not Applicable

**Problem Statement**



1. Calculate the P Value for the test in Problem 2.

pnorm(0.4)

pnorm(abs(0.4))

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

prop.test(table(mtcars$am)[2], nrow(mtcars), p = 0.4, alternative = "less",

conf.level = 0.99, correct = FALSE)

**Expected Output**



Not Applicable

|  |  |
| --- | --- |
| Copyrights© 2017, AcadGild. All Rights Reserved | 2 |
|  |  |