ACADGILD

SESSION 7: Basic Statistics

Assignment 3

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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 basic statistics.

3. Prerequisites

Not applicable.

4. Associated Data Files

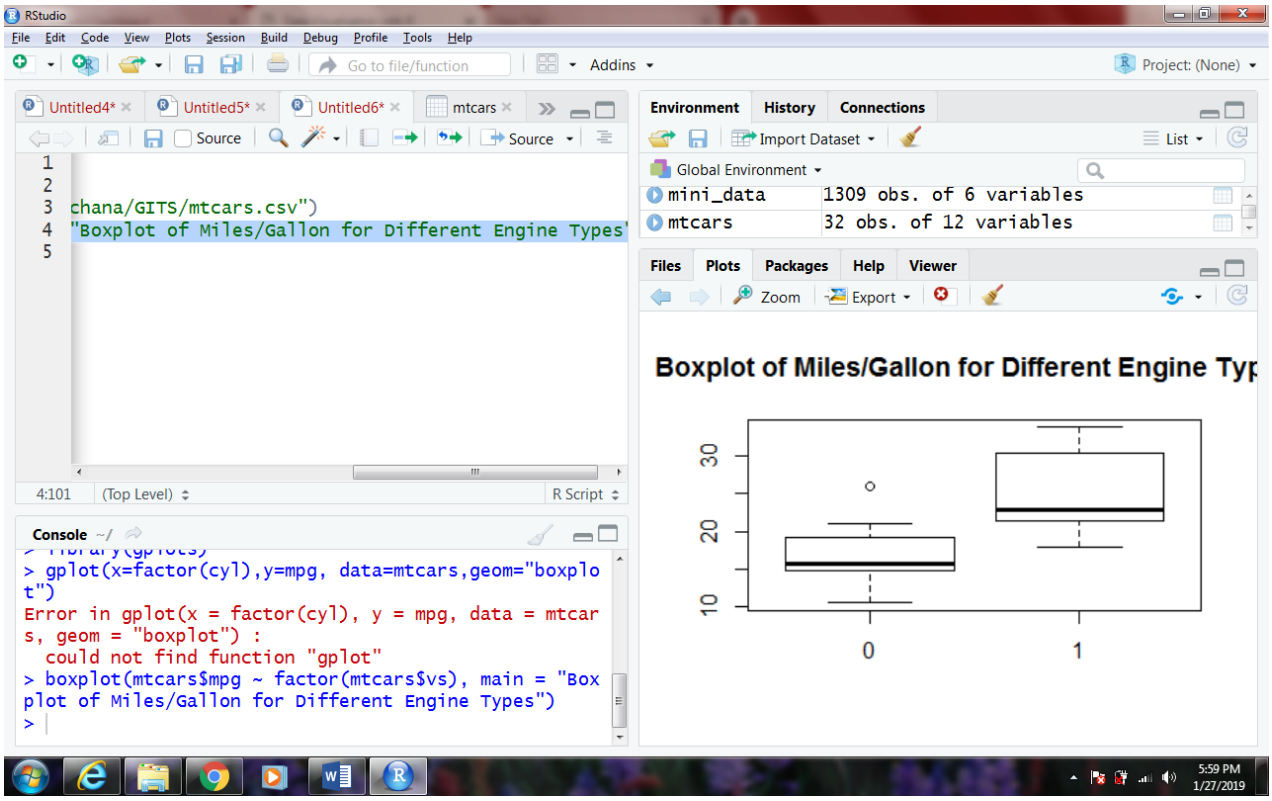
Not applicable.

5. Problem Statement

1. Create a **box and whisker plot** by class using **mtcars** dataset.

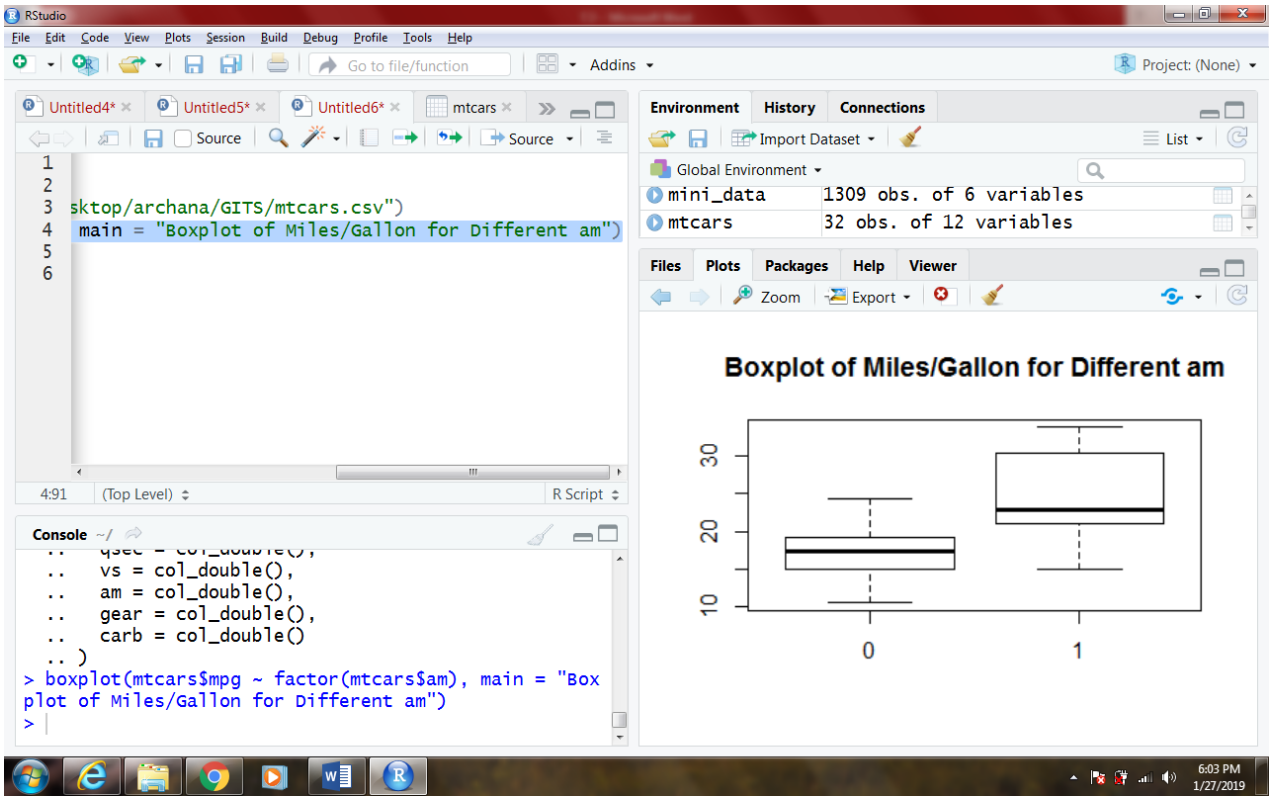
1. Boxplot of mile per Galon v/s different engines

boxplot(mtcars$mpg ~ factor(mtcars$vs), main = "Boxplot of Miles/Gallon for Different Engine Types")



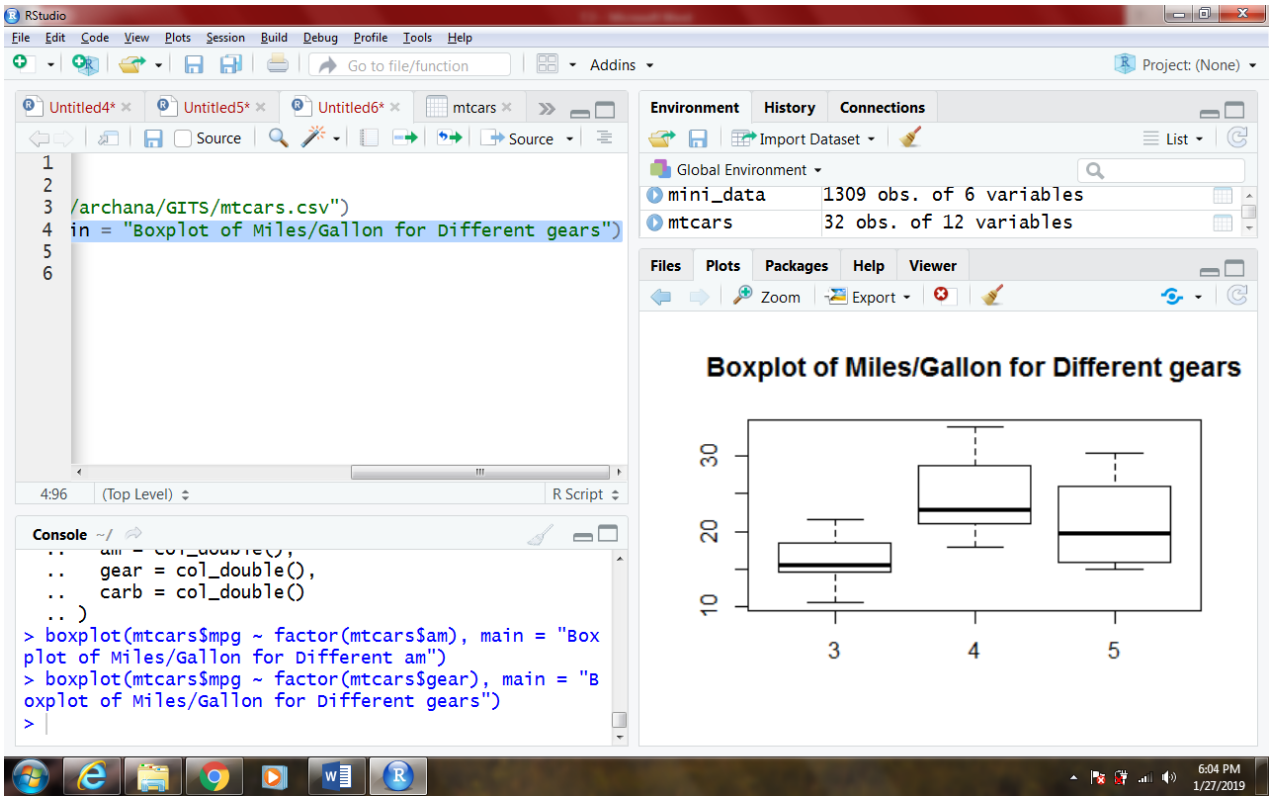
2. b. Boxplot of mile per Galon v/s am

boxplot(mtcars$mpg ~ factor(mtcars$am), main = "Boxplot of Miles/Gallon for Different am")



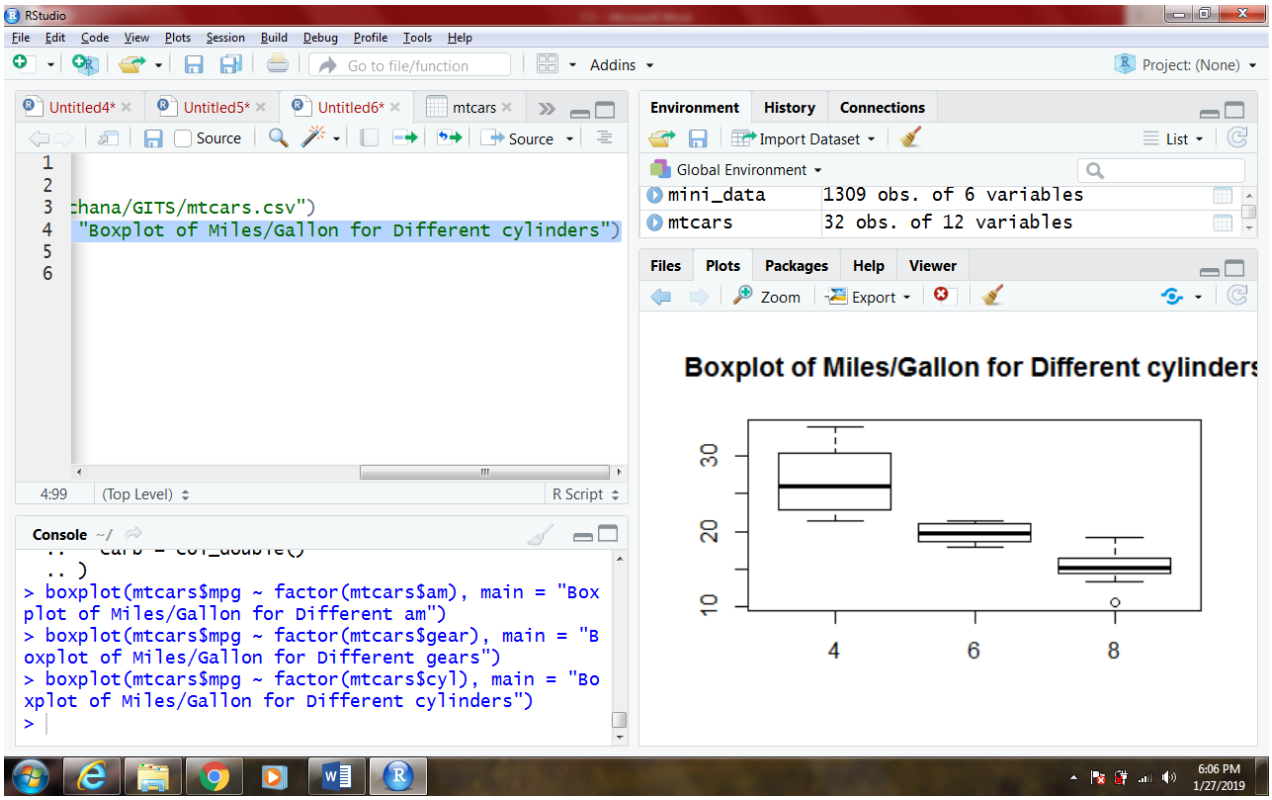
3. b. Boxplot of mile per Galon v/s gears

boxplot(mtcars$mpg ~ factor(mtcars$gear), main = "Boxplot of Miles/Gallon for Different gears")

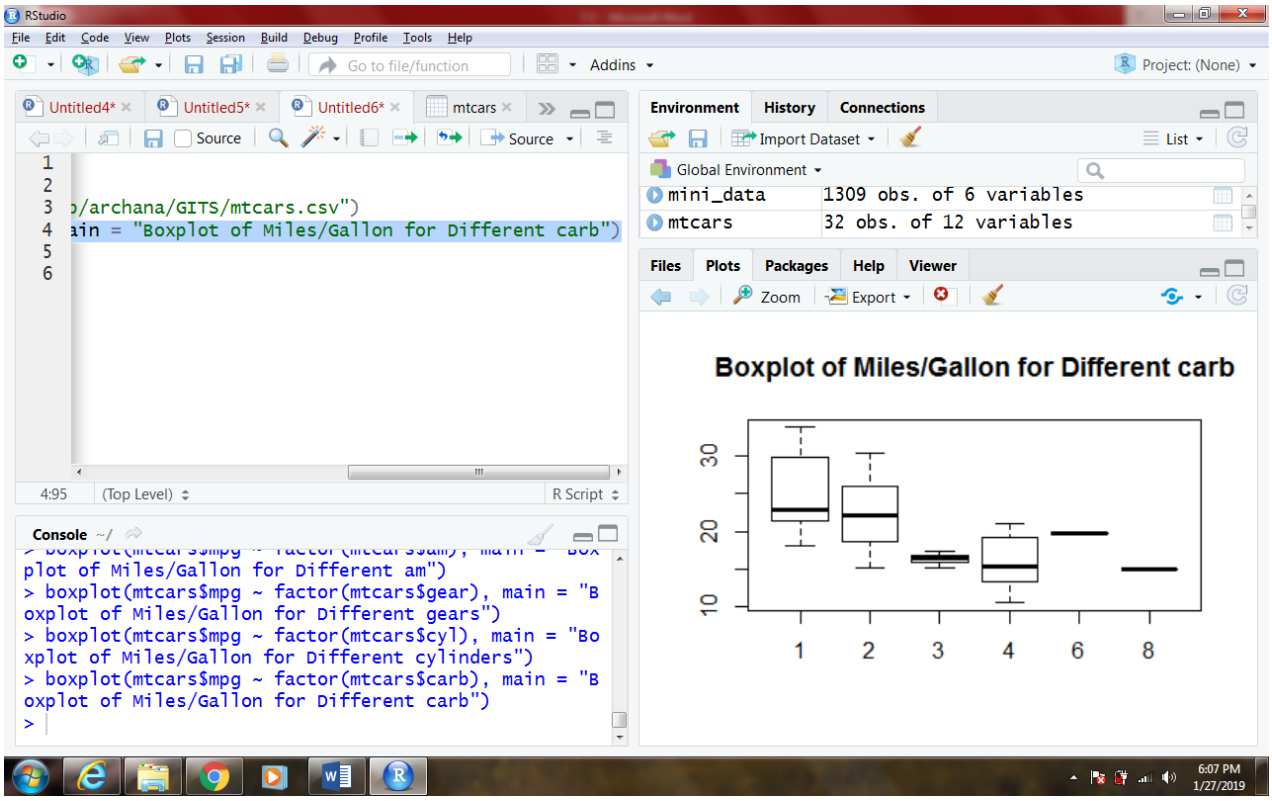


4. b. Boxplot of mile per Galon v/s cly

boxplot(mtcars$mpg ~ factor(mtcars$cyl), main = "Boxplot of Miles/Gallon for Different cylinders")



5. b. Boxplot of mile per Galon v/s carb
boxplot(mtcars$mpg ~ factor(mtcars$carb), main = "Boxplot of Miles/Gallon for Different carb")



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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

30 mins.