

Session 7 – Basic Statistics

Assignment - 3

Contents

[Introduction 2](#_bookmark0)

[Objective 2](#_bookmark1)

[Prerequisites 2](#_bookmark2)

[Associated Data Files 2](#_bookmark3)

[Problem Statement 2](#_bookmark4)

[Expected Output 2](#_bookmark5)

**Introduction**

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

**Objective**

This assignment will test your skills on basic statistics.

**Prerequisites**

Not Applicable

**Associated Data Files**

Not Applicable

**Problem Statement**

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

|  |
| --- |
| library(ggplot2) |
|  |  |
|  | ggplot(mpg, aes(x=class, y=hwy,fill=class, font.main=3)) + |
|  | ggtitle(toupper("Different Classes")) + |
|  | geom\_boxplot(alpha=0.3) +theme(legend.position="none") |
|  |  |
|  | #another way |
|  |  |
|  | boxplot(mpg~cyl, data=mtcars, |
|  | main= toupper("Fuel Consumption"), font.main=3, |
|  | col= topo.colors(3), xlab="Number of Cylinders", |
|  | ylab="Miles per Gallon") |

**Expected Output**

Not Applicable