# **SESSION 8: Exploratory Data Analytics**

## **Assignment 2**

1. Use the package -RcmdrPlugin.IPSUR.

data(RcmdrTestDrive)

And perform the below operations:

a. Compute the measures of central tendency for salary and reduction which variable has highest center?

#### Answer:

library(RcmdrPlugin.IPSUR) library(psych) data("RcmdrTestDrive") attach(RcmdrTestDrive)

**#Salary** 

c(mean(salary),median(salary))

#reduction

c(mean(reduction), median(reduction))

**#To check which has the highest center** 

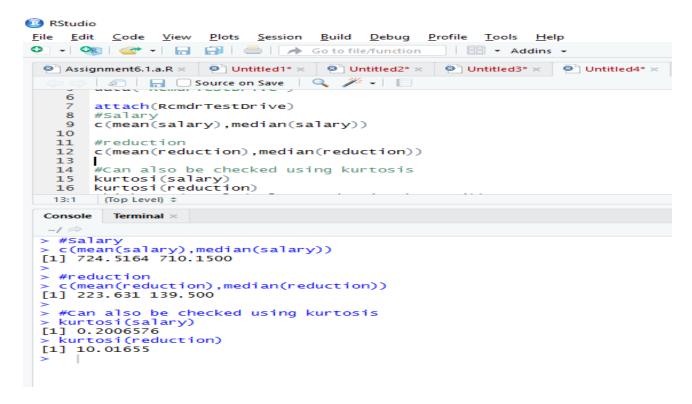
#Can be done using kurtosis

kurtosi(salary)

kurtosi(reduction)

#Since reduction has more value, it is having the highest peak

### **Output:**



b. Which measure of center is more appropriate for before and after?

#### Answer:

#if distribution is symmetric, then mean and median should be same, #Boxplot can be used to check where the median lies in the distibution

windows()
par(mfrow=c(1,2))
boxplot(before,horizontal = T,main="Before")
boxplot(after,horizontal = T,main="Before")

#Skewness can be used to check the assymetric distribution

skew(before) skew(after)

#after is more -ve means more distibution on the right side.

#### **Output:**

