## **ASSIGNMENT 8.1**

## **Problem Statement**

Use the package -RcmdrPlugin.IPSUR. - data(RcmdrTestDrive) and perform the below operations:

a. Calculate the average salary by gender and smoking status.

##Mean salary by Gender

tapply(RcmdrTestDrive\$salary, list(RcmdrTestDrive\$gender, RcmdrTestDrive\$smoking), mean)

```
Nonsmoker Smoker
Female 692.9093 733.2122
Male 740.9080 751.4900
```

b. Which gender has the highest mean salary? tapply(RcmdrTestDrive\$salary, RcmdrTestDrive\$gender, mean)

```
Female Male 698.0911 743.3915
```

c. Report the highest mean salary.
max(mean(RcmdrTestDrive\$salary))

## [1] 724.5164

d. Compare the spreads for the genders by calculating the standard deviation of salary by gender. tapply(RcmdrTestDrive\$salary, RcmdrTestDrive\$gender, sd)

Female Male 130.7053 158.5423