Assignment 8.1

```
install.packages("RcmdrPlugin.IPSUR", repos="http://cran.r-project.org", dep=TRUE)

library("RcmdrPlugin.IPSUR")

library(dplyr)

library(magrittr)


data(RcmdrTestDrive)

View(RcmdrTestDrive)


dim(RcmdrTestDrive)


x<-RcmdrTestDrive


#a. Calculate the average salary by gender and smoking status.
 x %>%
   group_by(gender) %>%
   summarise(avg_sal=mean(salary))


 x %>%
   group_by(smoking) %>%
   summarise(avg_sal=mean(salary))


#b. Which gender has the highest mean salary?
#Answer: Male


#c. Report the highest mean salary
#Highest Mean Salary = 743
```

#d. Compare the spreads for the genders by calculating the standard deviation of salary by gender.

```
 x %>%

  group_by(gender) %>%

  summarise(standarddeviation_sal=sd(salary))
```