Data set is not proper

7.2 a)

plot(USArrests$Assault, USArrests$Murder, pch=as.integer(

USArrests$hiUrbanFactor))

legend("bottomright", c("Low Urban", "Hi Urban"), pch=1:2)

b)

# Now, let's fit a very simple linear model to this relationship and view a graph

# with the predicted line.

model1 <- lm(USArrests$Murder ~ USArrests$Assault)

summary(model1)

abline(model1)

# Now, let's include an interaction between assaults and our urban factor

# variable to see if what appeared to be different slopes in the plot are sig.

model2 <- lm(USArrests$Murder ~ USArrests$Assault\*USArrests$hiUrbanFactor)

summary(model2)