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

***Ans:***

mtcars1 <- mutate(mtcars,

cyl = as.factor(cyl),

vs = as.factor(vs),

am = as.factor(am),

gear = as.factor(gear),

carb = as.factor(carb),

mpg = mpg, hp = hp, drat = drat, qsec=qsec)

str(mtcars1)

par(mfrow=c(3,3))

i <- c(1,3,4,5,6,7)

j <- c(2,8,9,10,11)

for(k in i){

print(k)

for(m in j){

print(m)

boxplot(mtcars1[, k]~mtcars1[, m], data = mtcars1, xlab=colnames(mtcars1[, m]),

ylab=colnames(mtcars1[, k]), col = heat.colors(5))

}

}