Digital Assignemtn - 1

Course Details: PMDS503P
Reg No. 24MDT0179
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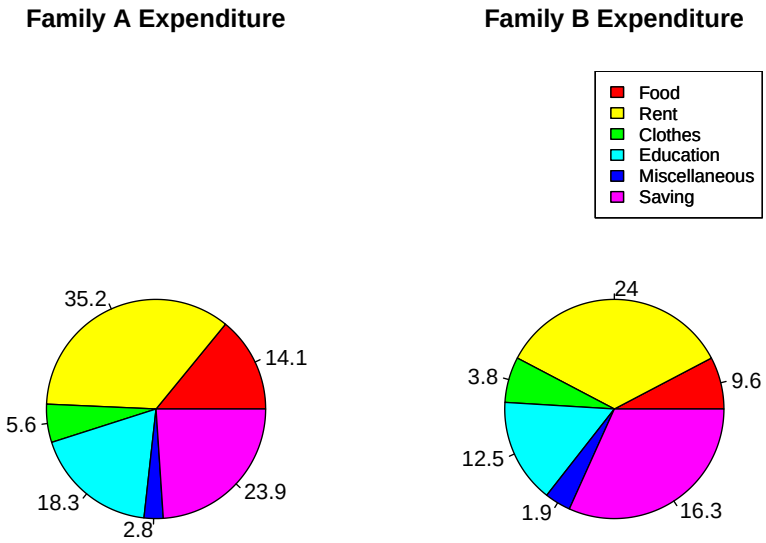
```
#Q1
familyA <- c(10,25,4,13,2,17)
familyB <- c(8,36,7,16,4,33)
par(mfrow=c(1,2))

piepercentA<- round(100*familyA/sum(familyA), 1)
piepercentB<- round(100*familyA/sum(familyB), 1)

pie(familyA, label=piepercentA, main="Family A Expenditure",col = rainbow(length(familyA)))
pie(familyB, label=piepercentB, main="Family B Expenditure",col = rainbow(length(familyB)))

legend("topright", c('Food','Rent','Clothes','Education','Miscellaneous', 'Saving'), cex = 0

legend("topright", c('Food','Rent','Clothes','Education','Miscellaneous', 'Saving'), cex = 0
```


Family A Expenditure
Family B Expenditure
Food
Rent
Clothes
Education
Miscellaneous
Saving
35.2
14.1
5.6
18.3
2.8
23.9
24
9.6
3.8
12.5
1.9
16.3

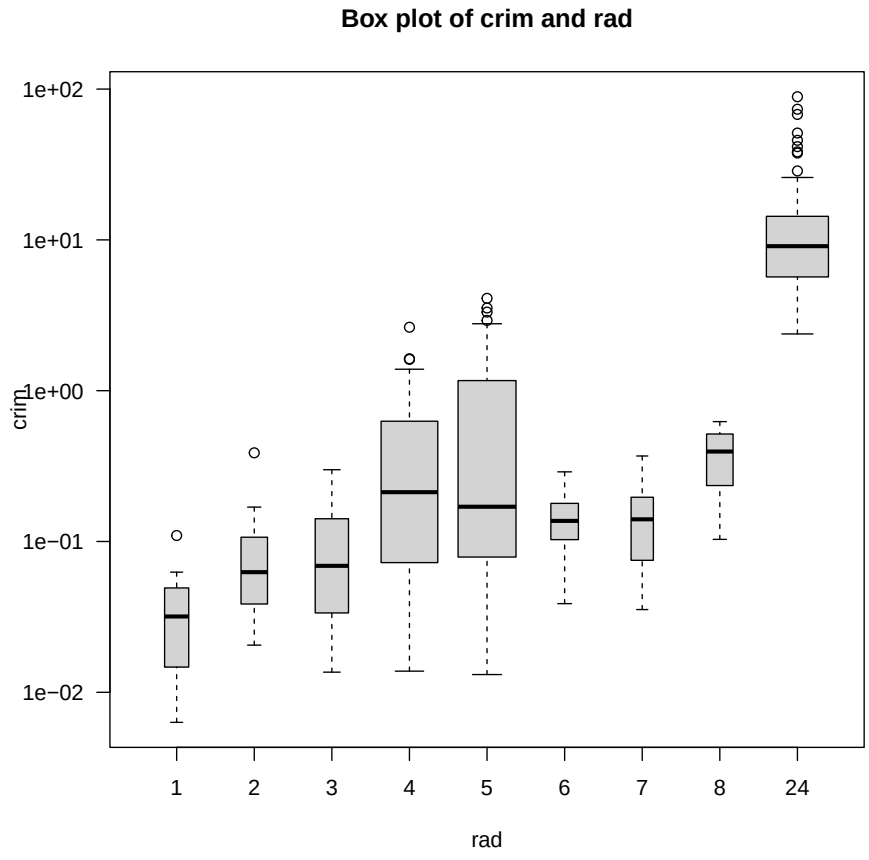
```r
# Q2

# 2.1 Display the number of variables in dataset

library(MASS)
data("Boston")
ncol(Boston)

## [1] 14

# 2.2 Draw a box plot for any two variables
boxplot(crim ~ rad,data=Boston, varwidth = TRUE, log='y', las = 1)
title("Box plot of crim and rad")
```



```r
# 2.3 Scatterplot for any two variables\
attach(Boston)
plot(age, dis , main="AGE / DIS graph",xlab="Age", ylab="dis",pch=19)
```