

R Homework Number 10

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Statistics 5193

*Note: this document was created using R Markdown.

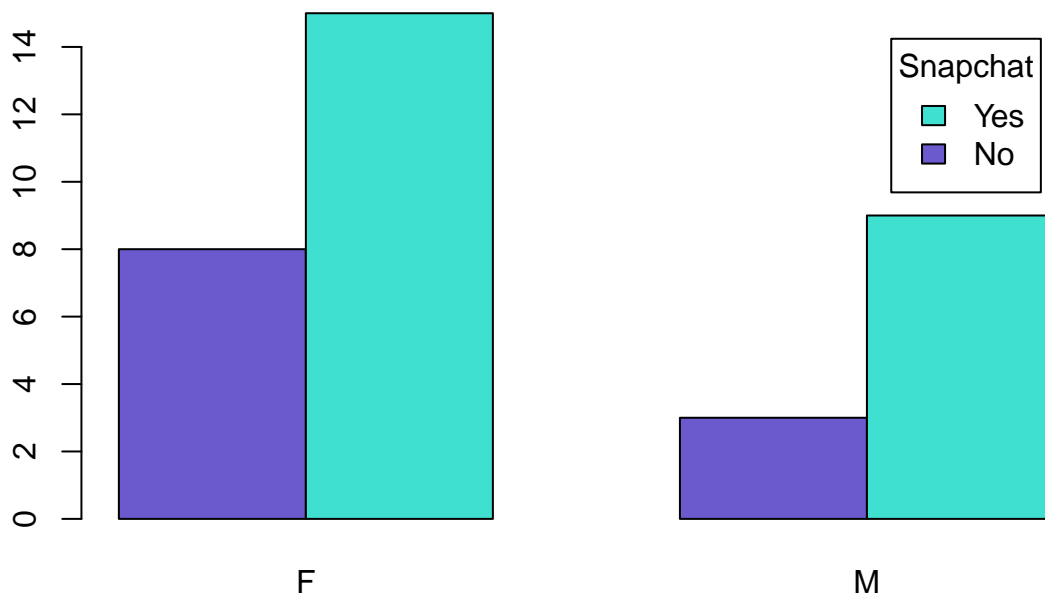
Question 1

```
library(readxl)
StudentData <- read_excel("~/Documents/data_science/r_stat_5193/data/StudentData.xlsx")

gender_snap <- table(StudentData$Snapchat, StudentData$Gender)

barplot(gender_snap, beside = T, col = c("slateblue", "turquoise"))

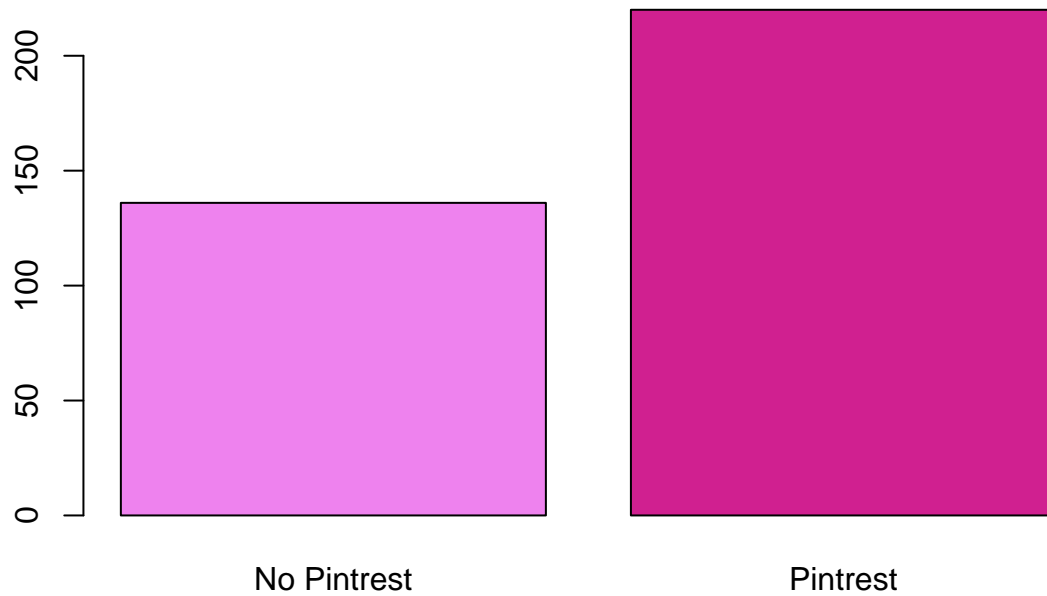
legend("topright",
      inset = 0.05,
      title = 'Snapchat',
      c("Yes", "No"),
      fill=c("turquoise", "slateblue"))
```



Question 2

```
median_pin <-aggregate(StudentData$HSCClass~StudentData$Pinterest, FUN = median)

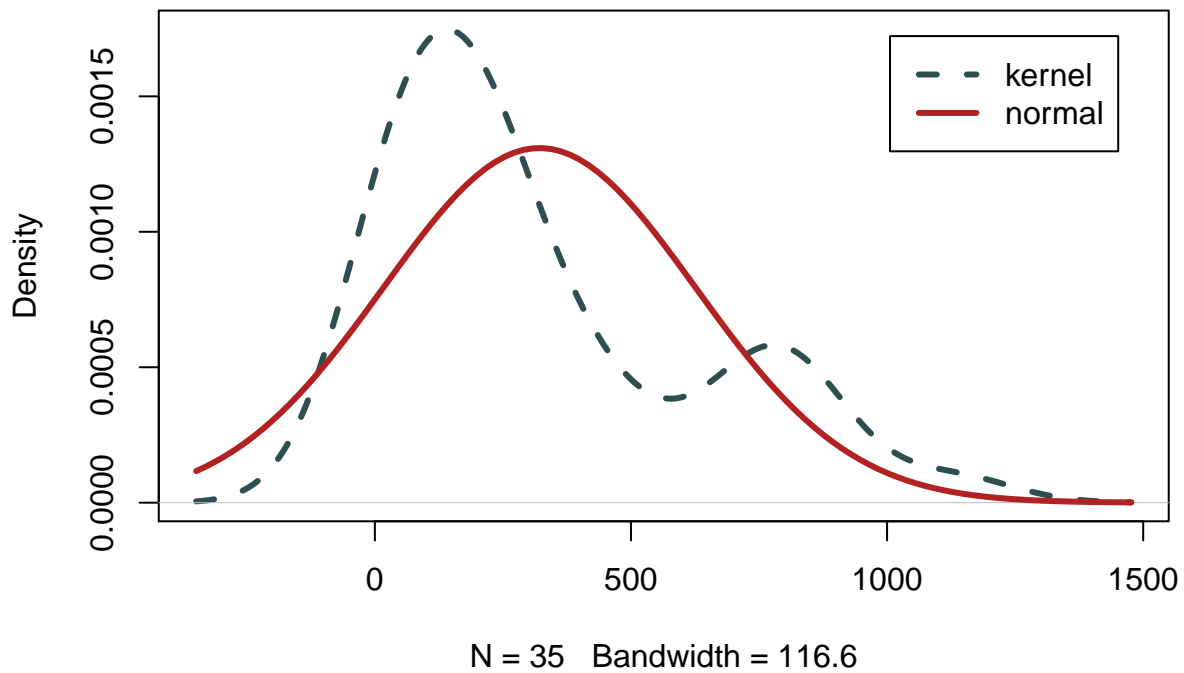
barplot(median_pin$`StudentData$HSCClass`,
        col = c("violet", "violetred"),
        names.arg=c("No Pintrest", "Pintrest"))
```



Question 3

```
plot(density(StudentData$HSCClass),  
     lty = 2,  
     lwd = 3,  
     col = "darkslategray")  
  
curve(dnorm(x,  
            mean(StudentData$HSCClass),  
            sd(StudentData$HSCClass)),  
      add = T,  
      lwd = 3,  
      col='firebrick')  
  
legend('topright',  
       inset = 0.05,  
       legend = c('kernel', 'normal'),  
       lty = c(2,1),  
       lwd = c(3,3),  
       col = c('darkslategray', 'firebrick'))
```

density.default(x = StudentData\$HSCClass)



Question 4

```
us_dataframe <- as.data.frame(USPersonalExpenditure)
percents <- us_dataframe[,5]/sum(us_dataframe[,5])*100
pie_labels <- paste(row.names(USPersonalExpenditure), " ", percents, "%", sep="")
pie(USPersonalExpenditure[,5], labels = pie_labels)
```

