Assignment 0

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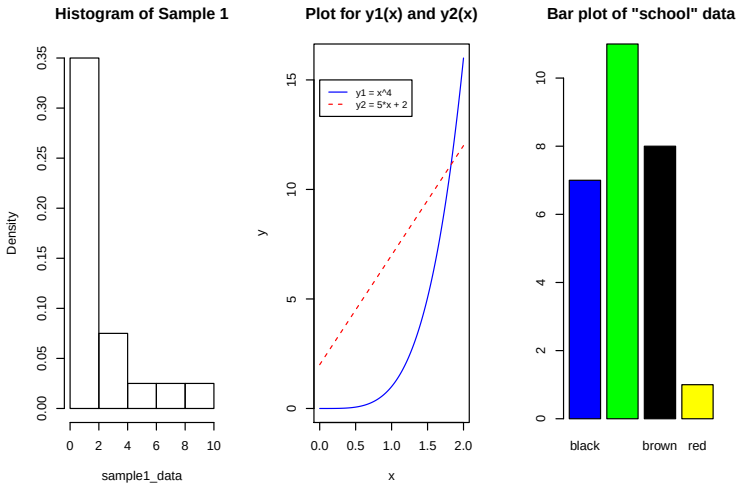
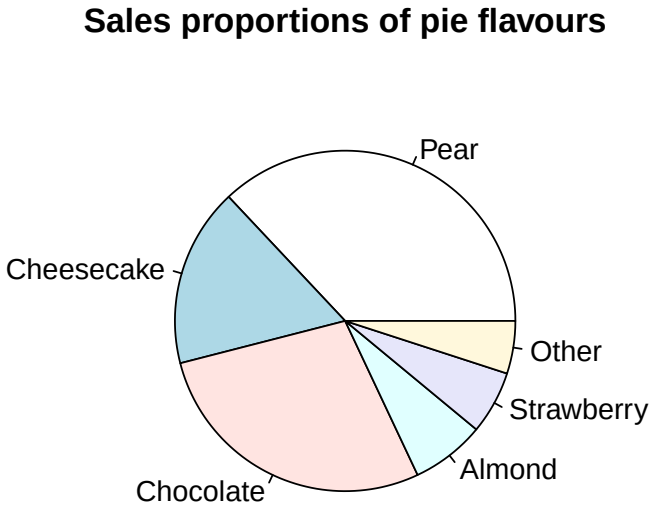
Group CS 6

Exercise 0.6

1. Plots for (a), (b), (c)



2. Plot for (d)



Appendix

1. Exercise 0.6 (a)

```
par(mfrow=c(1,3))
sample1_data=as.matrix(read.table("sample1.txt"))
dimnames(sample1_data) <- list(list("a","b","c", "d"), list("I", "II", "III", "IV", "V"))
hist(sample1_data, probability = T, breaks = 5,main = "Histogram of Sample 1")
```

2. Exercise 0.6 (b)

```
x  = seq(0, 2, 0.001)
y1 = x^4
y2 = 5*x + 2
plot(x, y1, col = "blue", type = "l",main = "Plot for y1(x) and y2(x)",xlab = "x",ylab = "y")
lines(x, y2, col="red",  type = "l", lty = 2)
legend(0, 15,legend=c("y1 = x^4", "y2 = 5*x + 2"),col=c("blue", "red"), lty=1:2, cex=0.8)
```

3. Exercise 0.6 (c)

```
load("Ass0.RData")
barplot(table(school), col = c("blue","green","black","yellow"),main = "Bar plot of \"school\" data")
```

4. Exercise 0.6 (d)

```
par(mfrow=c(1,1))
proportions <- c(0.37,0.17,0.28,0.07,0.06,0.05)
food_lables <- c("Pear", "Cheesecake", "Chocolate", "Almond", "Strawberry", "Other")
pie(proportions,labels = food_lables,main="Sales proportions of pie flavours")
```