Assignment1-Q1

Question 1

Assume that Prof. Steele creates the following list in R to help manage his life:

```
shopping_list <- list(
  Grocery = list(
    Dairy = c("Milk","Cheese"),
    Meat = c("Chicken","Sausage","Bacon"),
    Spices = c("Cinnamon")
  ),
  Pharmacy = c("Soap","Toothpaste","Toilet Paper")
)
```

    a. What objects (or values) are returned by the following lines of R code?

```
shopping_list$Grocery[["Meat"]]
# [1] "Chicken" "Sausage" "Bacon"

shopping_list[[2]][1]
# [1] "Soap"

shopping_list[["Pharmacy"]]
# [1] "Soap"        "Toothpaste"   "Toilet Paper"

shopping_list[1][[c(1,1,2)]]
# [1] "Cheese"
```

    b. Using R code, write statements which yield the following three results:

Result 1:

```
shopping_list["Grocery"]
```

```
## $Grocery
## $Grocery$Dairy
## [1] "Milk"    "Cheese"
##
## $Grocery$Meat
## [1] "Chicken" "Sausage" "Bacon"
##
## $Grocery$Spices
## [1] "Cinnamon"
```

Result 2:

```
shopping_list[["Pharmacy"]][3]
```

```
## [1] "Toilet Paper"
```

Result 3:

```
shopping_list[["Grocery"]]["Meat"]
```

```
## $Meat
## [1] "Chicken" "Sausage" "Bacon"
```