Kedar Shenoy

1BM17CS041

3a)

```
#part 1
buff_tail = c(10,1,35,5,2)
garden_bee = c(8,3,9,6,4)
red_tail = c(18,9,12,4,20)
carder_bee = c(8,27,6,32,23)
honey_bee = c(12,13,16,9,10)

my_matrix = matrix(data = c(buff_tail, garden_bee,
    red_tail, carder_bee, honey_bee), nrow = 5,
    ncol = 5)
my_matrix

plants = c("Thistle", "Vipers", "Golden Rush", "Yellowalfala",
    "blackberry")
rownames(my_matrix) = plants
my_matrix


# part 2
my_list = list(buff_tail, garden_bee, red_tail,
    carder_bee, honey_bee)
my_list
names(my_list) = plants
my_list
```

3b)

```
num = c(35, 36, 40)
string-obj = c("Hello!", "world")
real_num = c(35.6, 78.5, 90.5)

my-list = list(num, string-obj, real_num)

my-list

names(my-list) = c("numbers", "string", "real-numbers")

my-list
my-list $numbers
my-list $string
my-list $ real_numbers
```

3c) Data fram & factor

```
getwd()
setwd("/home/kedar/Desktop/blah/labs/DSR-IBM17CS041/day
data")
my-dataframe = read.csv("Churn_Modelling.csv")
head(my-dataframe)
income-group = vector(mode="character", length= length
                                    (my-dataframe $ Estima
                                    ted Salary)

income-group [my-dataframe $ Estimated Salary < 10000] = "low"
income-group [my-dataframe $ Estimated Salary >=10000
            & my-dataframe $ Estimated Salary <10000]
        = "middle".
income-group [my-dataframe $ Estimated Salary > 100000]
                                    = "High"
income-group

spender = factor(income-group, levels = c("low", "middle",
            "High", ordered = TRUE)
spender
my-dataframe = cbind(my-dataframe, spender)
head(my-dataframe)
write.csv(my-dataframe, "output.csv")
```