DSR Lab

Jayanth AV
1BM17CS033

3a)
```
BuffTail <- c(10,1,37,5,12)
GardenBee <- c(8,3,9,6,4)
RedTail <- c(18,9,12,4,6)
CarderBee <- c(8,27,6,32,23)
HoneyBee <- c(12,13,16,9,10)
M <- matrix(nrow=5, ncol=5, byrow=T,
            data=c(BuffTail, GardenBee, RedTail,
                   CarderBee, HoneyBee))
M
rownames(M) <- c("Thistle", "Vipers",
                 "Golden", "Rain", "Yell")
M
```

3b)
```
l1=c(7,8,9)
l2=c("bob", "jack")
l3=c(5.76, 9.01, 23)
l4=list(l1, l2, l3)
```

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```
names(14) = c("Integer", "String",
              "Real Number")

14
```

4.)

```
getwd()
setwd("C:/Users/jay/Downloads")
bk <- read.csv("Churn_Modelling.csv")
bk
nrow(bk)
colnames(bk)
class(bk)
str(bk)
bk$estimatedsalary
min(bk$estimatedsalary)
max(bk$estimatedsalary)

income_group <- vector(mode = "character",
                       length = length(bk$estimated
                                       salary))

income_group
income_group[bk$estimatedsalary<1000]
             <- "Low"

income_group
```

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```
income_group[bk$estimated salary >= 1000 &
             bk$estimated salary < 10000] <-
              "middle"
income_group[bk$estimated salary >10000] <-
                                  "High"

income_group
spenders <- factor(income_group, levels = c("
      Low", "middle", "High"),
      ordered = True)

spenders
bk <- cbind(bk, spenders)

bk
write.csv(bk, 'exportdata.csv',
          row.names = FALSE)
```

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