Matthew Langendorfer

HW5:

<https://github.com/dorf3/Assignment-5-R->

1).

x = matrix(c(7,9,12,2,4,13),2,3,byrow=TRUE);x

y = matrix(c(1,7,12,19,2,8,13,20,3,9,14,21),3,4,byrow=TRUE);y

d=x%\*%y;d

2A).

Data\_Frame <- data.frame (

  ID = (1:5),

  Name = c("Peter", "Amy", "Ryan", "Gary", "Michelle"),

  Salary = c(623.30, 515.20, 611.00, 729.00, 843.25)

)

Data\_Frame

2B).

Data\_Frame <- data.frame (

  ID = (1:5),

  Name = c("Peter", "Amy", "Ryan", "Gary", "Michelle"),

  Salary = c(623.30, 515.20, 611.00, 729.00, 843.25)

)

New\_col\_DF <- cbind(Data\_Frame, Department = c("IT", "Finance", "Monster Slaying", "Accounting", "Human Resources"))

New\_col\_DF

2C).

Data\_Frame <- data.frame (

  ID = (1:5),

  Name = c("Peter", "Amy", "Ryan", "Gary", "Michelle"),

  Salary = c(623.30, 515.20, 611.00, 729.00, 843.25),

  Department = c("IT", "Finance", "Monster Slaying", "Accounting", "Human Resources"),

)

Data\_Frame[1,]

Data\_Frame[3,]

Data\_Frame[5,]

Data\_Frame[,2]

Data\_Frame[,3]

2D).

Data\_Frame <- data.frame (

  ID = (1:5),

  Name = c("Peter", "Amy", "Ryan", "Gary", "Michelle"),

  Salary = c(623.30, 515.20, 611.00, 729.00, 843.25),

  Department = c("IT", "Finance", "Monster Slaying", "Accounting", "Human Resources")

)

Data\_Frame

barplot(Data\_Frame$Salary, names.arg = Data\_Frame$Name)

2E).

​​Data\_Frame <- data.frame (

  ID = (1:5),

  Name = c("Peter", "Amy", "Ryan", "Gary", "Michelle"),

  Salary = c(623.30, 515.20, 611.00, 729.00, 843.25),

  Department = c("IT", "Finance", "Monster Slaying", "Accounting", "Human Resources")

)

x <- max(Data\_Frame$Salary)

y <- min(Data\_Frame$Salary)

z <- median(Data\_Frame$Salary)

a <- c(x,y,z)

mylabel <- c("max","median","mode")

colors <- c("Red", "Blue", "Green")

pie(a, label=mylabel,main="Salary Statistics", col=colors)

legend("topleft", mylabel,fill = colors)