Assignment 1,level 2

1) one\_to\_twenty <- c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 )

one\_to\_twenty

2) #its datatype

class(one\_to\_twenty)

3) ##Other datatypes

4) #logical

c(TRUE, FALSE, 5<3)

#Character

c("Goodnight", "Hey!" )

5) #Creation of a vetcor.

one\_to\_twenty\_mat <- matrix(one\_to\_twenty ,nrow = 5)

one\_to\_twenty\_mat

6) #Dimension of the matrix created.

dim(one\_to\_twenty\_mat)

7) #New vector

my\_vector <- c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10 )

my\_vector

8) #New matrix

my\_matrix <- matrix(1:9, nrow = 3)

my\_matrix

9) mtcars

my\_df <- mtcars[1:10, ]

my\_df

10) #List creation

my\_list <- list(my\_vector, my\_matrix, my\_df)

my\_list

11) name <- c("Mercury", "Venus", "Earth", "Mars", "Jupiter", "Saturn", "Uranus", "Neptune")

type <- c("Terrestrial planet", "Terrestrial planet", "Terrestrial planet", "Terrestrial planet", "Gas giant", "Gas giant", "Gas giant", "Gas giant")

diameter <- c(0.382, 0.949, 1, 0.532, 11.209, 9.449, 4.007, 3.883)

rotation <- c(58.64, -243.02, 1, 1.03, 0.41, 0.43, -0.72, 0.67)

rings <- c(FALSE, FALSE, FALSE, FALSE, TRUE, TRUE, TRUE, TRUE)

y <- list(name, type, diameter, rotation, rings)

y

as.data.frame(y)

##Or we can directly get the feed in.

planets\_df <- data.frame(name = c("Mercury", "Venus", "Earth", "Mars", "Jupiter", "Saturn", "Uranus", "Neptune"),

type = c("Terrestrial planet", "Terrestrial planet", "Terrestrial planet", "Terrestrial planet", "Gas giant", "Gas giant", "Gas giant", "Gas giant"),

diameter = c(0.382, 0.949, 1, 0.532, 11.209, 9.449, 4.007, 3.883),

rotation = c(58.64, -243.02, 1, 1.03, 0.41, 0.43, -0.72, 0.67),

rings = c(FALSE, FALSE, FALSE, FALSE, TRUE, TRUE, TRUE, TRUE))

planets\_df



