Nuts-and-Bolts-in-R-Language-and-in-Studio.R

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N <- FALSE  
print(class(N))

## [1] "logical"

N <- 256  
print(class(N))

## [1] "numeric"

N <- 2L  
print(class(N))

## [1] "integer"

X <- 1:100  
typeof(X)

## [1] "integer"

y <- X+1  
typeof(y)

## [1] "double"

Z <- -X+1L  
typeof(Z)

## [1] "integer"

N <- 3+21+2i  
print(class(N))

## [1] "complex"

N <- "True"  
print(class(N))

## [1] "character"

N <- charToRaw("Hello")  
print(class(N))

## [1] "raw"

#Create a Vector.  
data <- c(' Cognitive Neuro Science','R Programming')  
print(data)

## [1] " Cognitive Neuro Science" "R Programming"

#Get class of the vector  
print(class(data))

## [1] "character"

#create a list  
list1 <- list(c(2,5,3),21.3,sin)  
#print the list  
print(list1)

## [[1]]  
## [1] 2 5 3  
##   
## [[2]]  
## [1] 21.3  
##   
## [[3]]  
## function (x) .Primitive("sin")

#create a matrix.  
M = matrix(c('a','a','b','c','b','a'),nrow =2,ncol=3,byrow = TRUE)  
print(M)

## [,1] [,2] [,3]  
## [1,] "a" "a" "b"   
## [2,] "c" "b" "a"

#create a array  
a <- array(c('green','yellow'),dim = c(1,10,1))  
print(a)

## , , 1  
##   
## [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8]   
## [1,] "green" "yellow" "green" "yellow" "green" "yellow" "green" "yellow"  
## [,9] [,10]   
## [1,] "green" "yellow"

#create a vector  
apple\_colors <- c('green','green','yellow','red','red','red','green')  
  
#create a factor object.  
factor\_apple <- factor(apple\_colors)  
  
#print the factor.  
print(factor\_apple)

## [1] green green yellow red red red green   
## Levels: green red yellow

print(nlevels(factor\_apple))

## [1] 3

#create the dataframe.  
Students <- data.frame(  
 gender = c("Female","Male","Female"),  
 Names = c("Megha", "Srikanth", "Parthavi"),  
 Application\_Number = c(21001,21002,21003)  
)  
print(Students)

## gender Names Application\_Number  
## 1 Female Megha 21001  
## 2 Male Srikanth 21002  
## 3 Female Parthavi 21003