```
# Create two data frames
df1 <- data.frame(ID = 1:3, Name = c("Alice", "Bob", "Charlie"))
 df2 <- data.frame(Score = c(85, 92, 78))
# Combine data frames using cbind() combined_
df <- cbind(df1, df2)
# Resulting data frame
 print(combined_df)

# Create two data frames
 df1 <- data.frame(ID = 1:3, Name = c("Alice", "Bob", "Charlie"))
 df2 <- data.frame(ID = 4:6, Name = c("David", "Eve", "Frank"))
 # Combine data frames using rbind()
combined_df <- rbind(df1, df2)
# Resulting data frame
 print(combined_df)




paste("Hello", "World", sep = ", ")

 # Using paste() for concatenation
 first_name <- "John"
 last_name <- "Doe"
full_name_paste <- paste(first_name, last_name, sep = " ")

first_name <- "John"
 last_name <- "Doe"
cat("Full Name (cat): ", first_name, last_name, sep = " ")

substr("Data Science", start = 1, stop = 4)
```

```
nchar("Hello, World!")

tolower("Mixed Case"), toupper("Mixed Case")

strsplit("apple,banana,grape", split = ",")

gsub("World", "R", "Hello, World!")

grep("kiwi", c("apple", "banana", "grape", "kiwi"))

data frame using vector
User.ID <- sprintf("User % d", 1:8)
Name <- c("Jhon", "Lee", "Suzan", "Abhinav",
        "Brain", "Emma", "David", "Alice")

gender <- c("Male", "Male", "Female", "Male",
          "Male", "Female", "Male", "Female")

Marks <- c(56, 76, 86, 96, 73, 87, 47, 98)

Number <- c('111-222', '222-333', '333-444', '444-666',
          '333-888', '000-888-777', '999-000', '222-456')

class.df<- data.frame(User.ID, Name,
                  gender, Marks, Number)
class.df
```

List data structure

```
empId = c(1, 2, 3, 4)
empName = c("Debi", "Sandeep", "Subham", "Shiba")
numberOfEmp = 4
empList = list(empId, empName, numberOfEmp)
 print(empList)
```

```
# R program to create Vectors
 X<- c(61, 4, 21, 67, 89, 2)

cat('using c function', X, '\n')

Y<- seq(1, 10, length.out = 5)

cat('using seq() function', Y, '\n')

# R program to create numeric Vectors
v1<- c(4, 5, 6, 7)
typeof(v1)
v2<- c(1L, 4L, 2L, 5L)
 typeof(v2)
```

statics analysis in r

```
a=iris
dim(a)
?iris
rownames(a)
summary(a)
```

read csv file

first create .csv excel file and then

a=read.csv(“a.csv”,TRUE)