R-Basic

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05/12/2020

R- Basics

# For comments  
# Shortcuts ctrl+Enter---For execute of code  
# ctrl+ L------Clearing the console  
# creating simple objects and doing mathematical operations  
# shift cursor to console window ------ctrl+2  
# shift cursor to R editor -------ctrl+1  
  
# Assigning value to a variable  
  
a = 5  
  
# Printing value assigned to a variable  
a

## [1] 5

a <- 6  
a

## [1] 6

scr = 'ggg'  
scr

## [1] "ggg"

scrr = "dggg"  
scrr

## [1] "dggg"

print(class(a))

## [1] "numeric"

print(class(scr))

## [1] "character"

print(class(scrr))

## [1] "character"

# class defines the data type of variable  
  
class(a)

## [1] "numeric"

class(scr)

## [1] "character"

class(scrr)

## [1] "character"

a - 8

## [1] -2

a

## [1] 6

b=TRUE  
b

## [1] TRUE

class(b)

## [1] "logical"

c = 4  
c

## [1] 4

a+c

## [1] 10

if(b){  
 a+c  
}

## [1] 10

sqrt(c)

## [1] 2

c^a

## [1] 4096

exp(c)

## [1] 54.59815

factorial(a)

## [1] 720

abs(a)

## [1] 6

cos(a)

## [1] 0.9601703

# Function  
  
divider = function(x,y) {  
 result = x/y  
 result  
}  
divider(2,4)

## [1] 0.5

multiplication = function(a,b) {  
 output = a\*b  
 output  
}  
multiplication(2,4)

## [1] 8

# concat and arrays  
  
fuc <- c(1,2,3,4,5)  
fuc

## [1] 1 2 3 4 5

fuc + 10

## [1] 11 12 13 14 15

fuc\*10

## [1] 10 20 30 40 50

k = c(1,2,3)  
k = c(a,b,c)  
k+1

## [1] 7 2 5

# Listing & deleting objects(variable)  
# ls()  
#rm(scr)  
# ls()  
# rm (list = ls()) # Remove all the variables  
# ls()