Day 1

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a=5  
a

## [1] 5

b=10  
b

## [1] 10

class(a)

## [1] "numeric"

c=b  
class(c)

## [1] "numeric"

# Mathematical Functions  
  
sqrt(b)

## [1] 3.162278

factorial(a)

## [1] 120

cos(b)

## [1] -0.8390715

abs(cos(a))

## [1] 0.2836622

log10(a)

## [1] 0.69897

# New Function  
  
divider = function(x,y){  
 result = x/y  
 print(result)  
}  
divider(50,25)

## [1] 2

multiply = function(x,y){  
 result = x\*y  
 print(result)  
}  
  
multiply(3,9)

## [1] 27

# CONCATENATION AND ARRAYS  
f <- c(1,2,3,4,5)  
f = c(1,2,3,4,5)  
f

## [1] 1 2 3 4 5

f+4

## [1] 5 6 7 8 9

d=f/4  
d

## [1] 0.25 0.50 0.75 1.00 1.25

ls() #list all variables

## [1] "a" "b" "c" "d" "divider" "f" "multiply"

rm(a) #remove a  
ls()

## [1] "b" "c" "d" "divider" "f" "multiply"

rm(list=ls()) #remove all variables  
ls()

## character(0)