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L37-38

MAT2001

Lab Assignment-01

Introduction to R Studio (Basic syntax and commands)

">" this symbol is called prompt

Arithmetic Operations:

Addition

> 12+12 [1] 24

Subtraction

> 12-12 [1] 0

Multiplication

> 12*12 [1] 144

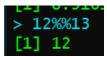
Division

> 12/12 [1] 1

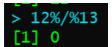
Exponent (2 ways)

> 12^12 [1] 8.9161e+12 > 12**12 [1] 8.9161e+12

Modulus



Integer division



Some exceptions:

Some more basic calculations

```
> 1+2*3
[1] 7
> 100+200+300
[1] 600
```

Logical Operations:

```
> 2<3

[1] TRUE

> 3>2

[1] TRUE

> 2<=3

[1] TRUE
```

Working with vectors

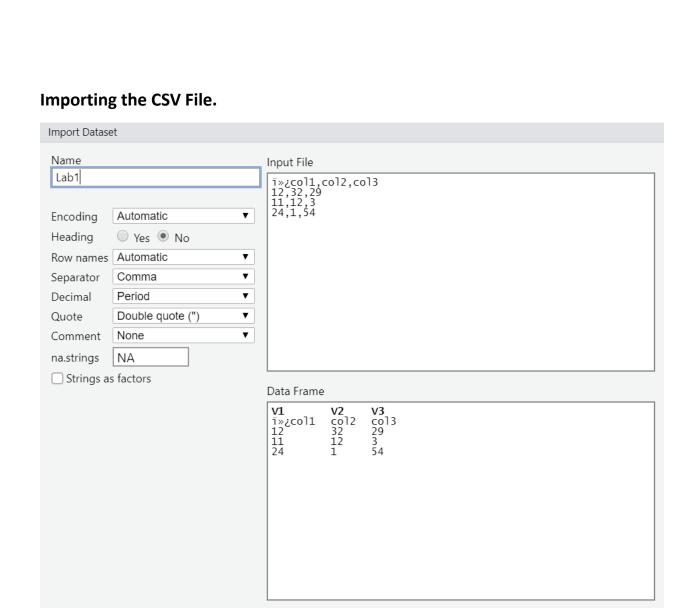
```
> x<-c(1:10)
> x[(x>8)|(x<5)]
[1] 1 2 3 4 9 10
> 5*a
[1] 55
> u=c
> u=c(10,20,30)
> v=c(1,2,3,4,5,6,7,8,9)
> u+v
[1] 11 22 33 14 25 36 17 28 39
> a=c(1,2,3)
> 5*a
[1] 5 10 15
```

```
> vec1=c(1,2,3,4,5,6)
> sum(vec1)
[1] 21
> mean(vec1)
[1] 3.5
> median(vec1)
[1] 3.5
> sd(vec1)
[1] 1.870829
> sqrt(vec1)
[1] 1.000000 1.414214 1.732051 2.000000 2.236068 2.449490
> seq(1,10)
```

```
> seq(1,10,2)
[1] 1 3 5 7 9
> seq(1:10)
  [1] 1 2 3 4 5 6 7 8 9 10
> seq(1,10,by=2)
[1] 1 3 5 7 9
> as.character(a)
[1] "1" "2" "3"
```

String operation

```
> paste("Hiii", "Preyash")
[1] "Hiii Preyash"
> fname="Prey"; lname="ash"
> paste(fname,lname)
[1] "Prey ash"
> paste(fname)
[1] "Prey"
```



Import

Cancel

