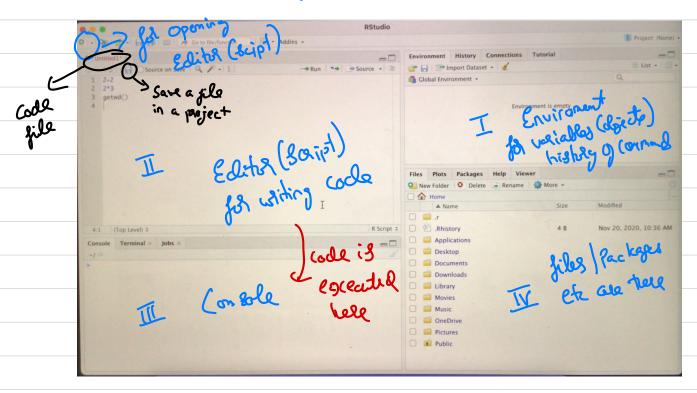
R-> Programming Language
Robbio > IDE (Integrated Development environment)



Greate a project > Anything you do get sepect in one place So File > New project > now directory -> new project > Clirectory norme

# helps in companying

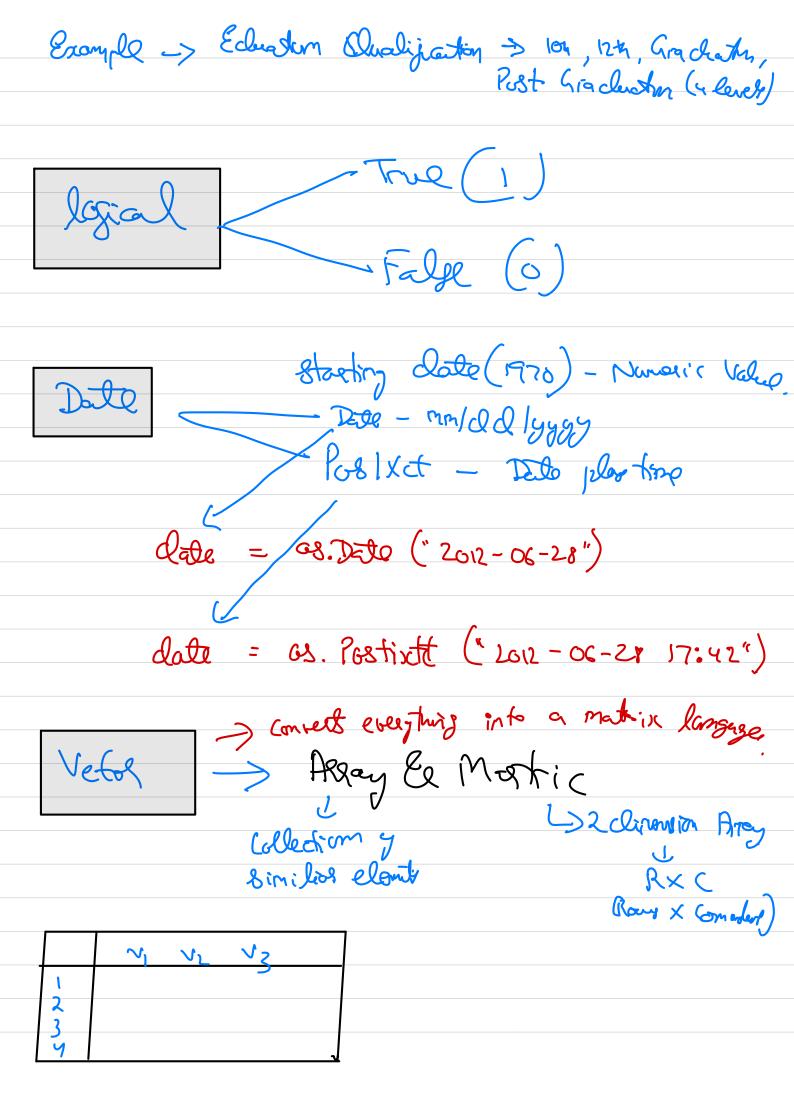
(a) = 5

Reading 1900 to left.

Commond line Execution -> Each be Every line Come he executed separately

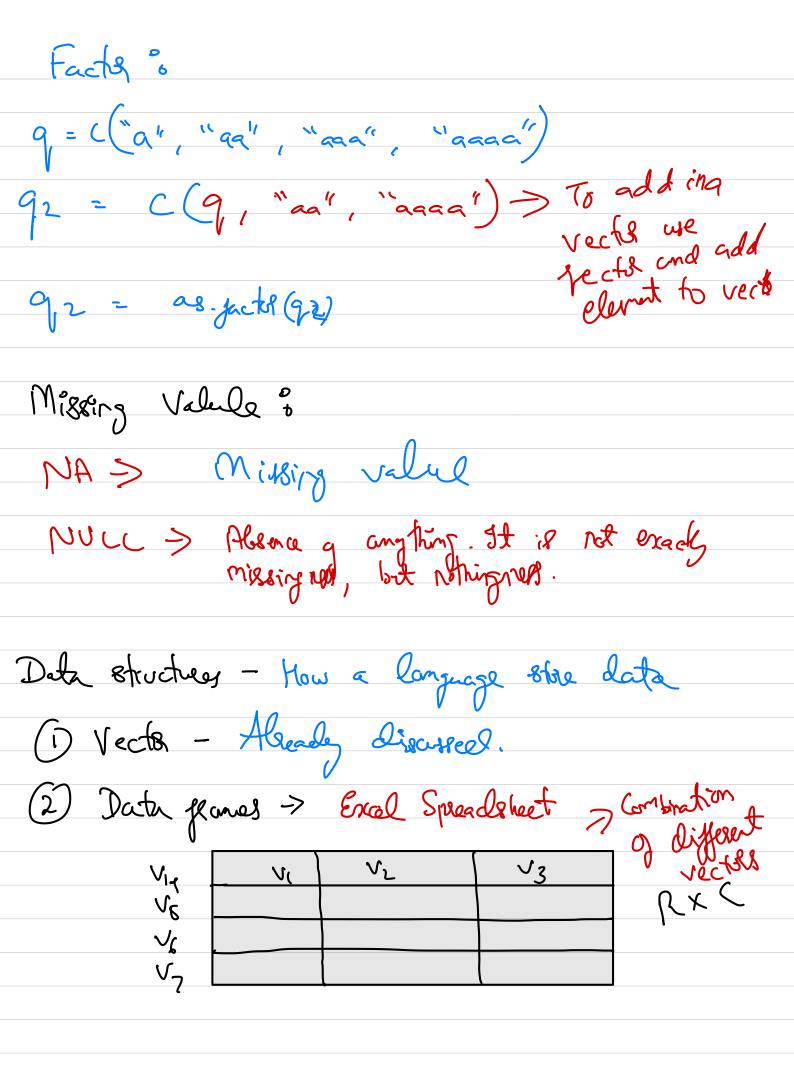
Declare Variable >

tunction whithy o
Vosiable = trunction (21, y) of  Posit = x*y  Brin-1 (result)
result = x*y
Bin-1 (eesul)
Y .
Multiplier (4,6)
Result = 24
DI T 0 > ( 0 0 7 1 0 0 1 2014
Data Types :> (Numinal, ordinal, Interpolal & radio) 3/44
$lg = l_{int} + l_{int} +$
for System data types > (Numeric charity, logical
Numeric / Integer (whole Number) (1,2,3)
Flot (Decima () (12 22 )
Numeric Integer (whole Number) (1,2,3) Floot (Decimal) (1.2,3.2,)
for specifying Interger numberic add Los suppor
a=(5L) 2nteges.
Choracter words/Stricgs (Nomial)
Clarke
Clossyi coton (Gender - Mak, Jenne) (Adiral) level y classyication
level y classification
Level y classification - faits Involos lous



V = C(1,2,3,4,5) 7 S
Rosent 2 4 6 8 10 A vector is collection of cland all y some type. A vector comment to g mised type Vector Granton (+,-,\*,/ Vector clara should be y one type R is also known as vectorised language c(1,2,3,4,5,6 Vector a = 1:10 > (olon Common b = 5315 los vectos. 2 3 4 5 6 7 8 9 10 45 345 3453 468791118141913

Unelygiza



(3) Matrix ) Involves Veals as well at Pate flowns: -> 2 Dimensions only.
Grand Strang is a dimensional data set of Allay.
(5) List > It can the different type of clota even a recog, only list ect:
Data fames o
Gosting a clate frame o
X = 10: ( (rectol i) Y = -4: 5 (rectol z) Q = C('a', 'aa', 'aaa') (rectol 3)
the F = cloth-from (X, 19)  Str (heDF)  g = as. facts (q)
Variable nous down nous  the DF = class, four (First = x, Second = y, first = q)
the DF = clots, flower (First = x, Second = y, Sport = q)

Row nous de déput i.e. number

Acords y a specific (down Row / dota

Colomn > DF# Sport > Colomn. by now

DF (3,2] > 3rd row & 2rd Colom

DF (3,2:3) > 11

Trayl

in R fils of Sir

Matrix

Crives multiplication, addition apparating also
A % * % + (B) Troughors
Mertipliation like a matrix.
R More Cour
File 5 New jile -> R mark down.
"">> grave Account
Rossons run  in maridam  in maridam  le stoled in word
120 Stale in word
le dise por .
How to read data in R.
Reading Comma Septetal C Values (CSVs)
data set in Uci-eder > Jam data
Jære chomologicom  Simulati Noti

Gooding a variable and give the entire path theur = "htt: 11 www - - - - - CSV" Theory tonato = read. table (file = the und header = True, Sep = "")

Sep = """

Sep = ""

Separated by. head (ton ato) Septetal (Sep) recomes sprice Test jlo > R reserved backward slash (1) for specific function but the director whave backward slook so you up. double back Mach of Single Johnson Slook read table (file. (horse(1) > II ble yru will alway - Trace."
have header = Trace." School he july no reed for Dirately

R & Packages:
Retadio > Histogram, Simple linear Reglassion
greeirl pactage
· Tostall Package · Load the Package on Westing Environment.
flom R phoject.org.
Every package comes with its cun clarked to explain the features of the package.
R also have built in clote 829. just type clotery in R console
name the data set by after seeing clata () in the window opened
Jy Te dorte set Contain Null value
mean (y, na. m= True) > Removed the Null value to find mean

Totall. Package ("Name").

Heat may => (dealstim -) Seek on google.

T-test

Coloma none

Check Syntox

Lotes