CONTHOUS ASSESSMENT- I DATA SCIENCE WITH R PROGRAMMING

Corectory a dataframe:

H vectors to create dataframe,

Name = ('Joi', Princi, Courair', Firm;)

Height = ((5.1, b.2, 5.1, 5.2)

Height = (('Msc', 'MA', 'Msc', 'Msc')

Qualification = (('Delli', 'Bangalize', 'Chennoi', Potnoi')

Address = (('Delli', 'Bangalize', 'Chennoi', Potnoi')

H Dataframe Greation

off = data. frame (Name, Height, Qualification, Address)

print (df)

Output:

Own			Qualification	Address
	Name	Height	V	Delhi
	Tai	5.1	Msc	
2	Pourci	6.2	MA	Bongalore
3	Gouver	5.1	Msc	Classo Clamoi
ე ც	Prruj	5.2	MSC	Potna

1) Changing column name

column name "Address" to "boation"

El colnames (df) [which (names (df) == "Address")]

= "location"

column name changed successfully to "location"

O wtoput:

3.7		(the state of the s	
	Name	Height	Qualification	loration
	ering were consistent and emphasional properties of the many properties of the prope	5.\	M SC	Delki
	Jou.	6.2	WH	Bangalore
2	Pourci	5.1	msc	Chennai
3	Anny	5.2	msc	Potena
14	rray)	OF THE PROPERTY OF THE PARTY OF	The state of the s	

Structure of Dataframe:

can be seen by sobr () # Stoucture of Dotaframe

str (df)

Output:

data frame: 4 obs of 4 variable

Factor W/4 levels

num 5.1 6.2 5.1 5.2 Height

Qualification: Factor W12 levels

Fuctor WIn levels Location

d) Mean, max values of enteger column # Using R ambuilt functions mean (df \$Height) # It takes all the values in Height column and find mean mase (of \$ Height) # It takes all the values in Height and find mass min (df & Height) # It takes all values and find min Output: 5.4

6.2

5.1

to Looping Over and printing elements of list Iroks = c('c', 'Python', 'R', 'Al') Money = ((250, 280, 300) + H variables Purchase = C(TRUE) hoofeshop = le list (books, Money, Purchase) # Changing vertors for (i in dockstop) # Isterating over q # Pounting all (i) tough Output: "(" "PYCHON" "R" "AI" 250 280 300 TRUE

2.

3. Printing alphabets in uppercase from n to 3

1 alton to F

Letters (LETTERS [14:26] # Inhall fretion to convot capital between the capital betwee

if (letter = "J") { # Checking for conditions

mext # Bypaning by why wash

y

y spoord (letter)

y

Output:

"N"

"0"

"P"

"Ø"

, b,

"S"

4"

"""

`V `

"W"

χ΄

`\'

Z

ha) Compute VAT cost for given # taking 3 callegories for sample (alegory 1, collegory), Catagory 3 categories = (("A" "B", "(") Products = C ("Bodes and Artheles", "Vagilable, neat, bearage", "Tee - shiest, from and spart") VAT = ((5,11,19) Poure = C(50, 100, 200) elf = data. frame (colagones, Pondurds, VAI, Brice) pint (df) in al \$ VAI "Volue Added Par is", sum

vot A (0.05 * 50 vot B (0-11 * 100 vot C (0.19 * 200 vot ("Vot A=", vot A, " Vot B=", vot B, " Vot (=", vot C)

```
Output:
    Lad A = 25 Cot B = 50 Cot C = 79
SRET C- function (name, unique-ed, congrename = "Machine
                           Learning", brotch) It Furction do
                                            openent onseprat
    print (parte ("Nano", name)
     point (parte ("Unique ID: ", unique -Id)
      purt Cparte ("Cowse Name:", commence )
      sprint (parte ("Branch: ", Branch)
name ( readline ("Entire Name: ") # Inothing input
  ed C readline ("Enter Unique ID: ")
 Courserons ( readline ("Enter course Name: ")
 Branch ( readline ("Enter branch: ")
  détails (-name, id, branch)
Owtput:
                   - profes Finder Name: Southern
                          Extr Unique ID: 1298
                               Courserone : CS
                                 Branch: Engineering
    Name: Sathuh
                      Course Nord: machine Learning
     Unique TD: 1298
                        Branch: Englicentry
```