Lab Assignment - 1 (IAI - DOS -> 18.01.2022) DATE: 16.1.22 By: JOHATHAN RUFUS SAMUEL (20BLT 0332) - CSE3020 Std L43 - L44 Handwritten Code for TA1 = data. frame (Name = ((" a", "b", "(")")" e") Q1: " + " " g" " h " " ;") Grender = c ("M", "F", "H", "F", "H", "F", "H", "F" "F"), Age = c (23, 34, 45, 41, 22, 24, 28, 31, 29, 36) Designation = c ("Clerk", "Manager", "Executive", "CEO", "Assissant", "Programmer", "Tamager", "Exceptive" deputy CEO", "(hairman"), SSN = (("1", "2") "3", "4", "5", "6", "7", "8", "9", "10") prient (paste ("Summary of the data: ")) print (summary (Employees)) mame = "Jonathan Rujus SAMUEL" Q2: m1 = 10 m2 = 0.5 m3 = -4.56 mumbers = ((10,20,30,40,50,60) print (ls()) print (" Détails of J objects are as follows: ") privat (" Is . sta")

```
as integer (readline (prompt = " Enter number for corresponding
(23)
          times table ");
         for (i va 1:15)
          { print (paste (num, "", ", " = ", num";)
                      "Jonathan Rujus Samuel"
Q4:
             P1 = " Data "
            PZ: "Visialization"
            P3 = " Data Visualization"
             for (; in 1:100)
                  it (i) 13. 2 == 0 & & : -1.1. 4 == 0) prunt (paste (i,"=", p3))
              else if ( : 11. 2 ==0) privat ( poste ( : "= ", p1))
               else it (: 1.7.4 = =0) print (paste (: "=" p2))
              zelse [private (pasto (i))]
Qs:
             sum = 0
             Product = 1
             a = (1)
             a = 1:15
             print (a)
             m = as. integer (readline (prompt = "Entes a number m"))
              for (i in a)
               Sum = sum + i
                   product : product * i
                  . H (1.1.1. w ==0)
                    ? print (i)
```

```
mean = sum / longth (a)
 print (paste ("Sum: ", sum))
 print (paste (" Product: ", product))
 print (paste (" Mean: ", mean)
            c (na, na, na, na)
  rector =
              c (NA, NA, NA, NA, NA)
  vector 2 :
  orr = orray (c(vector), vector 2), din = c(5,5))
  privat (arr)
   for (i in 1:5)
        for (i = 1:s')
\xi
x = abs(i-i)
           20 = [i, i] = 20
       Print (arr)
while (x >5)
    a = floor (numit (1, min = 2, max = 13))
     b = 4600 (runit (1, min = 2, max = 13))
     print (" Answer the given question!")
     print ( paste ( a , " x " , b , " = ?" )
      ans = as integes (readline ())
     if ((a*b) == ams)
          print ('Correct!')
         x = x-1
       else { prival ('Wrong!') } }
```

Qb:

Q7:

```
coin = c ( 'heads', 'tails')
Q8:
          tlip = sample (coio, size = 20, replace = True)
           arns = vector (lungth = 0, mode = integer")
           for (i in flip)
            { ams = c (ams, i)
            print (ans)
         for (i in 0:100)
Q9:
          { = i * i
            it (x > 4000)
             2 privat ( First positive Integer whose squere exceeds 4000: )
               print (pasta (i, "Squara", x))
            x= vector (" mumoric", 6)
Q10:
             privat (" Numoric Vector: ")
             privat (x)
              c = vector ("complex", 6)
              print (" (complex Vector: ")
              print (c)
               I = vector (" logical", 6)
               print (" logical Vector ")
               print (I)
                chr = vector ("character", 6)
                print (" Character Vector:")
                privat (cha)
```