EXERCISE 2:

AIM:

Perform Addition of Two numbers using R Language

PROCEDURE:

- The addition of two numbers is an arithmetic operation of adding the two numbers and storing the output in a vector.
- The input values can be pre-defined or can be user-defined.
- The addition operation can be done on a single number or a list of input values using + operator
- sum() function is also used for performing addition.

Step 1- Create 2 input vectors

x <- 10 y <- 20

Step 2- Add the vectors

Add the two input vectors and store the output value in a third vector

z <- x+y print(paste("Addition of two numbers is:",z))

"Output of the code is: Addition of two numbers is" : 30

Step 3- User defined input vectors

Addition of two numbers can also be done, with user defined values using the following syntax

a <- readline(prompt="enter the first input value : ") b <- readline(prompt="enter the second input value : ")

"Output of the line is":

enter the first input value : 10

enter the second input value : 20

The user defined input values are character type, they are converted into integer type for performing the addition operation

a <- as.integer(a) b <- as.integer(b)

Step 4 - Add two user defined vectors

Adding two user defined input vectors and storing the output in a third vector

c <- a + b print(paste("Addition of user defined two numbers is:",c))

"Output of the code is : Addition of two numbers is" : 30

Step 5- Using built in function sum()

x <- c(10,20) print(paste("Addition of two numbers is :",sum(x)))

"Output of the code is : Addition of two numbers is" : 30

RESULT:

Thus, Addition two numbers is carried out using R language.

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