R Program to Display a Multiplication Table

R Program to Display a Multiplication Table

In this example, you will learn to print the multiplication table of a number (entered by the user) from 1 to 10.

To understand this example, you should have the knowledge of following R programming topics:

- R for Loop
- R Operators

Example: Multiplication Table

```
# R Program to find the multiplicationtable (from 1 to 10)
# take input from the user
num = as.integer(readline(prompt = "Enter a number: "))
# use for loop to iterate 10 times
for(i in 1:10) {
print(paste(num,'x', i, '=', num*i))
}
```

Output

```
Enter a number: 7
[1] "7 x 1 = 7"
[1] "7 x 2 = 14"
[1] "7 x 3 = 21"
[1] "7 x 4 = 28"
[1] "7 x 5 = 35"
[1] "7 x 6 = 42"
[1] "7 x 7 = 49"
[1] "7 x 8 = 56"
[1] "7 x 9 = 63"
[1] "7 x 10 = 70"
```

Here, we ask the user for a number which is stored in *num* variable.

R Program to Display a Multiplication Table

Then, the for *loop* is iterated 10 times from *i* equals to 1 to *i* equals to 10. In each iteration, a row of the multiplication table is printed using:

```
print(paste(num,'x', i, '=', num*i))
```