2022-2026-CSE-B

## Aim:

Write a program to print the <u>multiplication table</u> for a given number with the number of rows in the table.

For example, for a number 2 with 3 rows, the output should be:

```
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
```

At the time of execution, the program should print the following messages one by one on the console as:

```
Enter an integer number :
Enter number of rows :
```

For example, if the user gives the input as:

```
Enter an integer number : 5
Enter number of rows : 4
```

then the program should print the result as:

```
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
```

**Note:** Do use the **printf()** function with a **newline** character (\\n).

## **Source Code:**

## Program411.c

```
// c program to print the multiplication table for a given number
// written by naveena
// taught by faculty
// date:-26/12/2022
//filename:-multiplicationtable.c
#include<stdio.h>
void main()
   int num,rows,table,i;
   printf("Enter an integer number : ");
   scanf("%d",&num);
   printf("Enter number of rows : ");
   scanf("%d",&rows);
   for(i=1;i<=rows;i++)</pre>
   {
      table=num*i;
      printf("%d * %d = %d\n",num,i,table);
   }
}
```

Test Case - 1
User Output
Enter an integer number : 3
Enter number of rows : 6
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
3 * 6 = 18

	Test Case - 2
User Output	
Enter an integer number : 5	
Enter number of rows : 4	
5 * 1 = 5	
5 * 2 = 10	
5 * 3 = 15	
5 * 4 = 20	

Test Case - 3
User Output
Enter an integer number : 12
Enter number of rows : 7
12 * 1 = 12
12 * 2 = 24
12 * 3 = 36
12 * 4 = 48
12 * 5 = 60
12 * 6 = 72
12 * 7 = 84

Test Case - 4
User Output
Enter an integer number : 15
Enter number of rows : 10
15 * 1 = 15
15 * 2 = 30
15 * 3 = 45
15 * 4 = 60
15 * 5 = 75
15 * 6 = 90
15 * 7 = 105
15 * 8 = 120
15 * 9 = 135
15 * 10 = 150
15 * 7 = 105 15 * 8 = 120 15 * 9 = 135