2022-2026-CSE-B

Aim:

Write a program to print the <u>multiplication</u> table 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

```
#include<stdio.h>
int main()
{
  int num,row,i;
  printf("Enter an integer number : ");
  scanf("%i",&num);
  printf("Enter number of rows : ");
  scanf("%i",&row);
  for(i=1;i<=row;i++)
  {
     printf("%d * %d = %d\n",num,i,num*i);
  }
}</pre>
```

Execution Results - All test cases have succeeded!

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	
ser Output	
nter an integer number : 5	
nter number of rows : 4	
* 1 = 5	
* 2 = 10	
* 3 = 15	
* 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