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

```
#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!

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
ser Output
nter an integer number : 5
nter number of rows : 4
* 1 = 5
* 2 = 10
* 3 = 15
* 4 = 20

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