

Assignment - 3

Problem Statement:

Write a program in C to generate multiplication tables for a given number.

Code:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int num, i;
6
7     // Input from user
8     printf("Enter a number to generate its multiplication table: ");
9     scanf_s("%d", &num);
10
11    // Generate multiplication table
12    printf("\nMultiplication Table of %d:\n", num);
13
14    for (i = 1; i <= 10; i++)
15    {
16        printf("%d x %d = %d\n", num, i, num * i);
17    }
18
19    return 0;
20
21 }
```

Input & Output:

```
Enter a number to generate its multiplication table: 5
Multiplication Table of 5:
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50

D:\MIT\Sem2\FOP\Leap Year\x64\Debug\Leap Year.exe (process 11600) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automate when debugging stops.
Press any key to close this window . . .|
```