

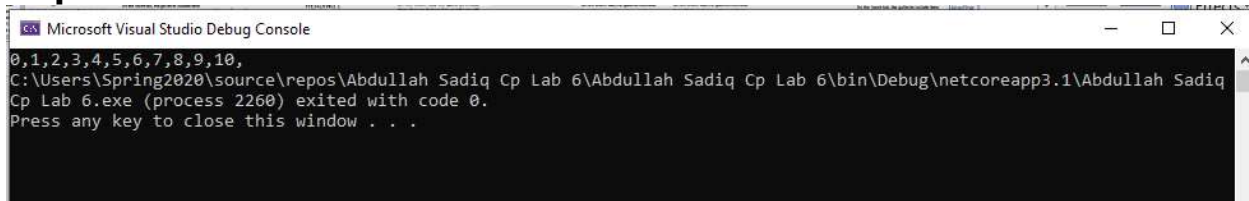
Example No 1:

Input:

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_6
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int i = 0; i <= 10; i++)
            { Console.Write(i + ","); }
        }
    }
}
```

Output:

The screenshot shows the Microsoft Visual Studio Debug Console. The output is a single line: "0,1,2,3,4,5,6,7,8,9,10,". Below this, a message states: "C:\Users\Spring2020\source\repos\Abdullah Sadiq Cp Lab 6\Abdullah Sadiq Cp Lab 6\bin\Debug\netcoreapp3.1\Abdullah Sadiq Cp Lab 6.exe (process 2260) exited with code 0." At the bottom, it says "Press any key to close this window . . .".

```
Microsoft Visual Studio Debug Console
0,1,2,3,4,5,6,7,8,9,10,
C:\Users\Spring2020\source\repos\Abdullah Sadiq Cp Lab 6\Abdullah Sadiq Cp Lab 6\bin\Debug\netcoreapp3.1\Abdullah Sadiq
Cp Lab 6.exe (process 2260) exited with code 0.
Press any key to close this window . . .
```

Example no 2

Input:

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_6
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int i = 1, sum = 1; i <= 128; i = i*2, sum *=i)
            {
                Console.WriteLine("i = {0}, sum = {1}", i, sum);
            }
        }
    }
}
```

Output:

The screenshot shows the Microsoft Visual Studio Debug Console. The output consists of eight lines, each showing the value of 'i' and 'sum' at each iteration: "i = 1, sum = 1", "i = 2, sum = 2", "i = 4, sum = 8", "i = 8, sum = 64", "i = 16, sum = 1024", "i = 32, sum = 32768", "i = 64, sum = 2097152", and "i = 128, sum = 268435456". Below this, a message states: "C:\Users\Spring2020\source\repos\Abdullah Sadiq Cp Lab 6\Abdullah Sadiq Cp Lab 6\bin\Debug\netcoreapp3.1\Abdullah Sadiq Cp Lab 6.exe (process 13384) exited with code 0." At the bottom, it says "Press any key to close this window . . .".

```
Microsoft Visual Studio Debug Console
i = 1, sum = 1
i = 2, sum = 2
i = 4, sum = 8
i = 8, sum = 64
i = 16, sum = 1024
i = 32, sum = 32768
i = 64, sum = 2097152
i = 128, sum = 268435456
C:\Users\Spring2020\source\repos\Abdullah Sadiq Cp Lab 6\Abdullah Sadiq Cp Lab 6\bin\Debug\netcoreapp3.1\Abdullah Sadiq
Cp Lab 6.exe (process 13384) exited with code 0.
Press any key to close this window . . .
```

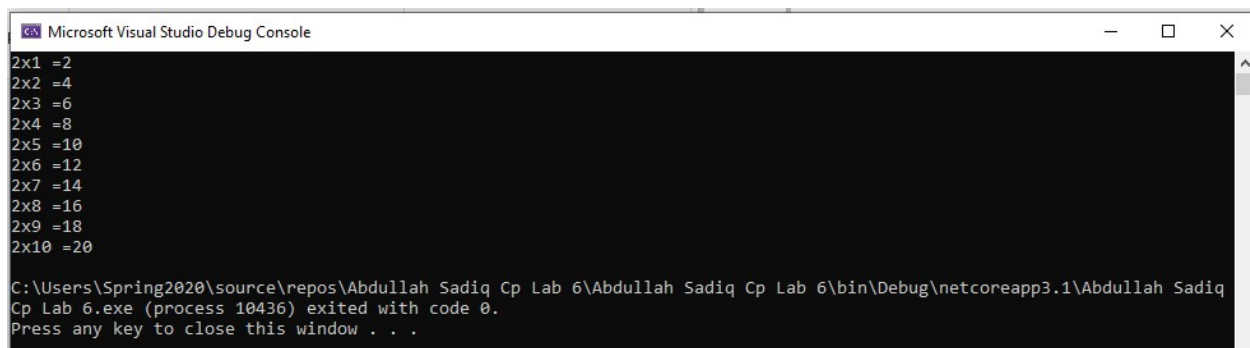
Example no 3

Input:

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_6
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int i = 1; i <= 10; i++)
            {
                Console.WriteLine("2x{0} = {1}", i, i * 2);
            }
        }
    }
}
```

Output:

A screenshot of the Microsoft Visual Studio Debug Console window. The window title is "Microsoft Visual Studio Debug Console". The output text is as follows:

```
2x1 =2
2x2 =4
2x3 =6
2x4 =8
2x5 =10
2x6 =12
2x7 =14
2x8 =16
2x9 =18
2x10 =20

C:\Users\Spring2020\source\repos\Abdullah Sadiq Cp Lab 6\Abdullah Sadiq Cp Lab 6\bin\Debug\netcoreapp3.1\Abdullah Sadiq
Cp Lab 6.exe (process 10436) exited with code 0.
Press any key to close this window . . .
```

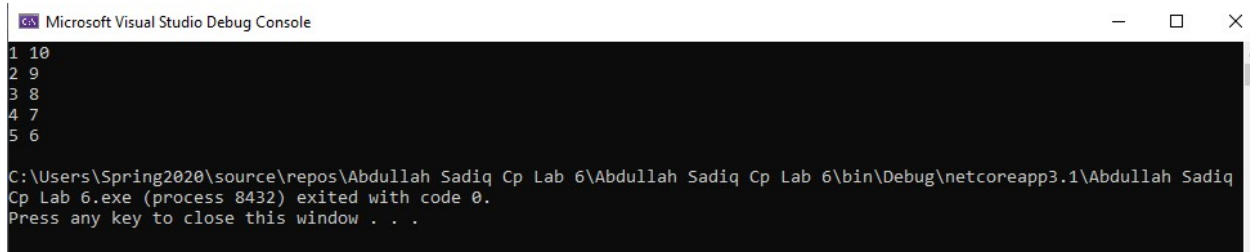
Example No 04

Input:

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_6
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int small = 1, large = 10; small < large; small++, large--)
            {
                Console.WriteLine(small + " " + large );
            }
        }
    }
}
```

Output:



```
Microsoft Visual Studio Debug Console
1 10
2 9
3 8
4 7
5 6
C:\Users\Spring2020\source\repos\Abdullah Sadiq Cp Lab 6\Abdullah Sadiq Cp Lab 6\bin\Debug\netcoreapp3.1\Abdullah Sadiq Cp Lab 6.exe (process 8432) exited with code 0.
Press any key to close this window . . .
```

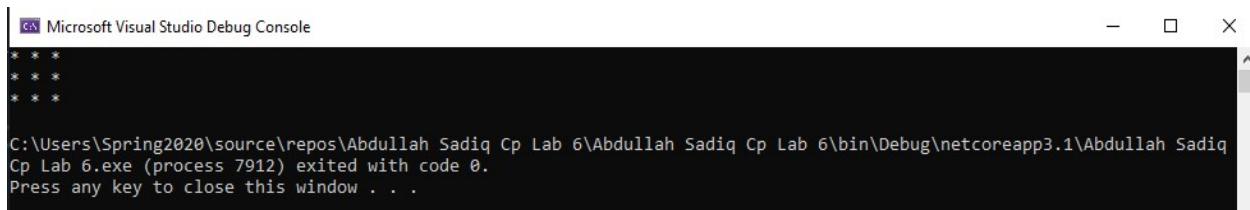
Example No 05

Input:

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_6
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int i = 0; i < 3; i++)
            {
                for (int j = 0; j < 3; j++)
                {
                    Console.Write("*" + " ");
                }
                Console.WriteLine("");
            }
        }
    }
}
```

Output:



```
Microsoft Visual Studio Debug Console
* * *
* * *
* * *
C:\Users\Spring2020\source\repos\Abdullah Sadiq Cp Lab 6\Abdullah Sadiq Cp Lab 6\bin\Debug\netcoreapp3.1\Abdullah Sadiq Cp Lab 6.exe (process 7912) exited with code 0.
Press any key to close this window . . .
```

Task No 01: Cube series without using power math function. (Use For loop)

Input:

```
using System;

namespace Abdullah_Sadiq_CP_Home_Tasks
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int i = 1; i <=10; i++)
            {
                Console.WriteLine("The Cube of {0} is {1}", i, i*i*i);
            }
        }
    }
}
```

Output:



Microsoft Visual Studio Debug Console

```
The Cube of 1 is 1
The Cube of 2 is 8
The Cube of 3 is 27
The Cube of 4 is 64
The Cube of 5 is 125
The Cube of 6 is 216
The Cube of 7 is 343
The Cube of 8 is 512
The Cube of 9 is 729
The Cube of 10 is 1000
```

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Task No 02: Square Series without using power math function (use For loop).

Input:

```
using System;

namespace Abdullah_Sadiq_CP_Home_Tasks
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int i = 1; i <=10; i++)
            {
                Console.WriteLine("The Square of {0} is: {1}", i, i*i);
            }
        }
    }
}
```

Output:

```
Microsoft Visual Studio Debug Console

The Square of 1 is: 1
The Square of 2 is: 4
The Square of 3 is: 9
The Square of 4 is: 16
The Square of 5 is: 25
The Square of 6 is: 36
The Square of 7 is: 49
The Square of 8 is: 64
The Square of 9 is: 81
The Square of 10 is: 100

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```

Task No 03: Repeatedly print the value of the variable x Value, decreasing it by 0.5 each time, as long as the x value remains Positive.

Input:

```
using System;

namespace Abdullah_Sadiq_CP_Home_Tasks
{
    class Program
    {
        static void Main(string[] args)
        {
            double num;
            Console.Write("Enter the Value of x: ");
            num = Convert.ToDouble(Console.ReadLine());

            for (double i = num; i > 0;)
            {
                Console.WriteLine("{0,-5:0.0}- 0.5 = {1,-5:0.0}", i, i -= 0.5);
            }
        }
    }
}
```

Output:

```
Microsoft Visual Studio Debug Console

Enter the Value of x: 10
10.0 - 0.5 = 9.5
9.5 - 0.5 = 9.0
9.0 - 0.5 = 8.5
8.5 - 0.5 = 8.0
8.0 - 0.5 = 7.5
7.5 - 0.5 = 7.0
7.0 - 0.5 = 6.5
6.5 - 0.5 = 6.0
6.0 - 0.5 = 5.5
5.5 - 0.5 = 5.0
5.0 - 0.5 = 4.5
4.5 - 0.5 = 4.0
4.0 - 0.5 = 3.5
3.5 - 0.5 = 3.0
3.0 - 0.5 = 2.5
2.5 - 0.5 = 2.0
2.0 - 0.5 = 1.5
1.5 - 0.5 = 1.0
1.0 - 0.5 = 0.5
0.5 - 0.5 = 0.0

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```

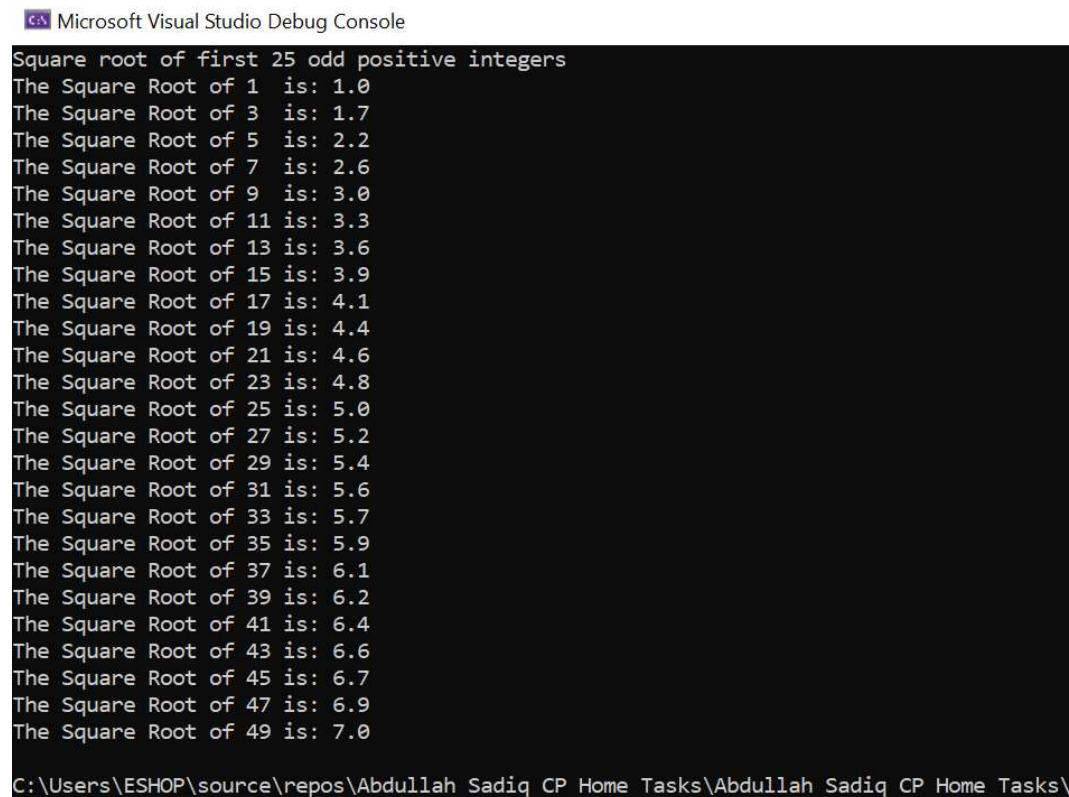
Task No 04: Print the square roots of the first 25 odd positive integers.

Input:

```
using System;

namespace Abdullah_Sadiq_CP_Home_Tasks
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Square root of first 25 odd positive integers");
            for (int i = 1; i < 50; i++)
            {
                Console.WriteLine("The Square Root of {0,-2:0} is: {1,-5:0.0}", i,
Math.Sqrt(i));
                i += 1;
            }
        }
    }
}
```

Output:



Microsoft Visual Studio Debug Console

```
Square root of first 25 odd positive integers
The Square Root of 1 is: 1.0
The Square Root of 3 is: 1.7
The Square Root of 5 is: 2.2
The Square Root of 7 is: 2.6
The Square Root of 9 is: 3.0
The Square Root of 11 is: 3.3
The Square Root of 13 is: 3.6
The Square Root of 15 is: 3.9
The Square Root of 17 is: 4.1
The Square Root of 19 is: 4.4
The Square Root of 21 is: 4.6
The Square Root of 23 is: 4.8
The Square Root of 25 is: 5.0
The Square Root of 27 is: 5.2
The Square Root of 29 is: 5.4
The Square Root of 31 is: 5.6
The Square Root of 33 is: 5.7
The Square Root of 35 is: 5.9
The Square Root of 37 is: 6.1
The Square Root of 39 is: 6.2
The Square Root of 41 is: 6.4
The Square Root of 43 is: 6.6
The Square Root of 45 is: 6.7
The Square Root of 47 is: 6.9
The Square Root of 49 is: 7.0

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```

Task No 05: Make a game in C#, in which give 5 tries to the user to guess the value of the number.

Input:

```
using System;

namespace Abdullah_Sadiq_CP_Home_Tasks
{
    class Program
    {
        static void Main(string[] args)
        {
            int secret = 69, value, guess = 1;
            Console.WriteLine("\t-Secret Number Game-");
            for (int i = 0; i < 5; guess++, i++)
            {
                Console.WriteLine("\nEnter a Secret Number:");
                value = int.Parse(Console.ReadLine());
                if (value == secret)
                {
                    Console.WriteLine("\nCorrect.\nYou took {0} try to guess a Secret
Number.", guess);
                    break;
                }
                else
                {
                    Console.WriteLine("\nWrong Answer!\nTry Again.");
                }
            }
        }
    }
}
```

Output:



```
Microsoft Visual Studio Debug Console

-Secret Number Game-

Enter a Secret Number:
80

Wrong Answer!
Try Again.

Enter a Secret Number:
69

Correct.
You took 2 try to guess a Secret Number.

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```

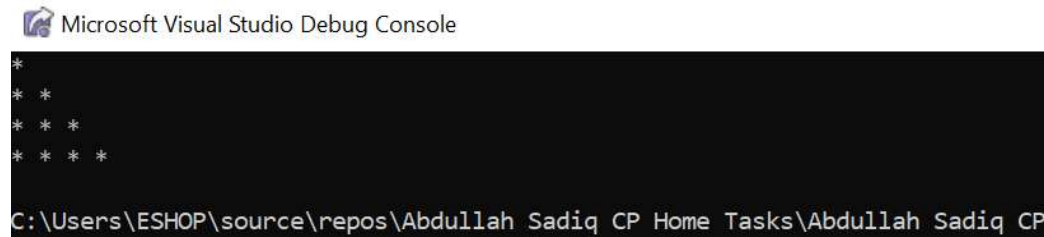
Task No 06: Generate Stars using 2 for loops

Input:

```
using System;

namespace Abdullah_Sadiq_CP_Home_Tasks
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int i = 0; i < 4; i++)
            {
                for (int j = 0; j <= i; j++)
                {
                    Console.Write("* ");
                }
                Console.WriteLine("");
            }
        }
    }
}
```

Output:



Microsoft Visual Studio Debug Console

```
*
* *
* * *
* * * *
```

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Task No 07: Write a program that reads from the console a positive integer number N (N < 20) and prints a matrix of numbers as N = 3 N = 4.

Input:

```
using System;

namespace Abdullah_Sadiq_CP_Home_Tasks
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Please Enter a Number (Below 20):");
            int num = Convert.ToInt32(Console.ReadLine());
            if (num <= 20)
            {
                for (int i = 1; i <= num; i++)
                {
                    for (int j = 0; j < num; j++)

```

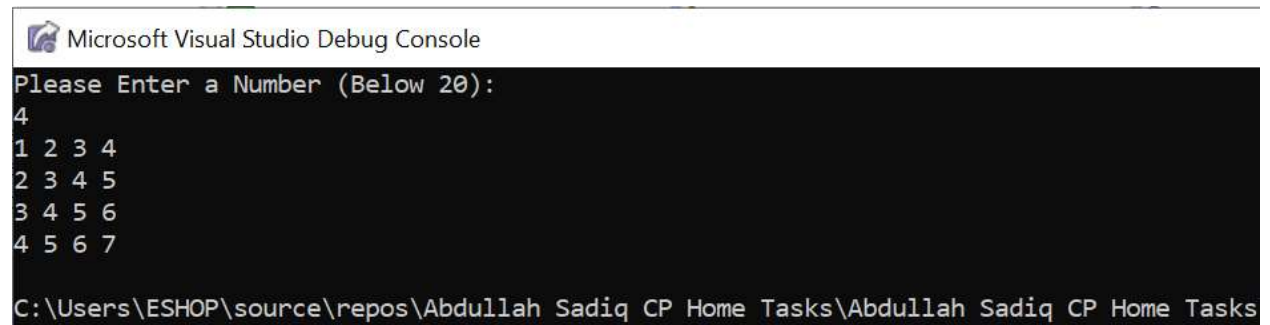


```

        {
            Console.Write("{0} ", i + j);
        }
        Console.WriteLine(" ");
    }
}
else
{
    Console.WriteLine("Invalid Input!");
}
}
}
}
}

```

Output:



Microsoft Visual Studio Debug Console

Please Enter a Number (Below 20):

4

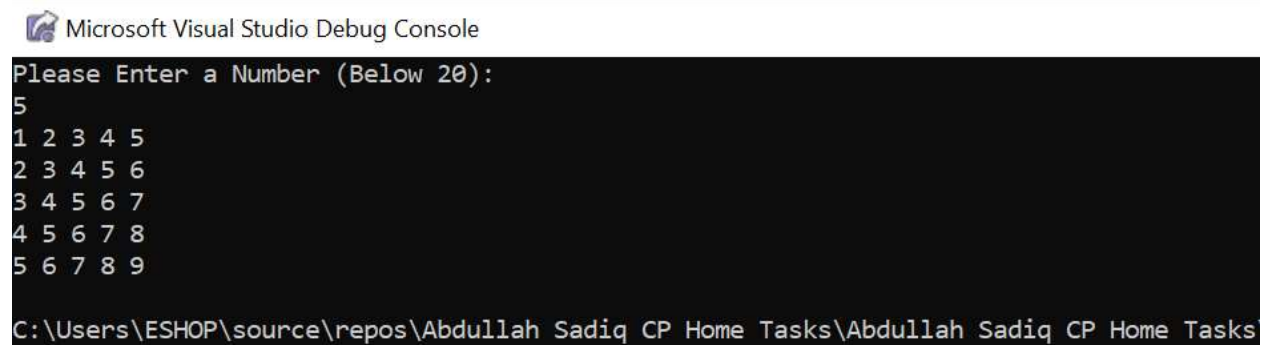
1 2 3 4

2 3 4 5

3 4 5 6

4 5 6 7

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Microsoft Visual Studio Debug Console

Please Enter a Number (Below 20):

5

1 2 3 4 5

2 3 4 5 6

3 4 5 6 7

4 5 6 7 8

5 6 7 8 9

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