12214994_Saurabh Rana

Day2 : 1 to 5 Senerio Based Questions:

1)program to print numbers from 1 to 5(R to L)
```
  1
 12
 123
1234
12345
```

2)
program to print the output as following

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

3)
program to read student details (no, name,marks)using do
while loop by accepting details till user enter y as an
input */

4)
C# Program to Print All the Multiples of 17 which are Less than 100
This is a C# Program to print all the multiples of 17 which are less than 100.

5) Sum of Digits Program in C#
This is a C# Program to get a number and display the sum of the digits.
Problem Description
This C# Program Gets a Number and Display the Sum of the Digits.
Runtime Test Cases
Enter a Number : 123
Sum of Digits of the Number : 6
Problem Solution
The digit sum of a given integer is the sum of all its digits.
Program/Source Code
Write the source code of the C# Program to Get a Number and Display the Sum of the
Digits. The C# program is successfully compiled and executed with Microsoft Visual
Studio. The program output is also shown below.
Runtime Test Cases
Enter a Number : 123
Sum of Digits of the Number : 6

Code:Answer

```csharp
using System;
class Program
{
    public static void Main()
    {
        //1
        for(int i=1; i<=5; i++)
        {
            for(int j=5; j>i; j--)
            {
                Console.Write(" ");
            }
            for(int k=1; k<=i; k++)
            {
                Console.Write(k+" ");
            }
            Console.WriteLine();
        }
        //2
        Console.WriteLine();
        for(int i=1; i<=3; i++)
        {
            for(int j=3; j>=i; j--)
            {
                Console.Write(" ");
            }
            for(int k=1; k<=i; k++)
            {
                Console.Write("* ");
            }
            Console.WriteLine();
        }

        //3
        char choice;
        do
        {
            Console.Write("Enter Student No: ");
            int no = Convert.ToInt32(Console.ReadLine());
            Console.Write("Enter Student Name: ");
            string name = Console.ReadLine() ?? "";
            Console.Write("Enter Student Marks: ");
            int marks = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine($"Student Details: No={no}, Name={name}, Marks={marks}");
            Console.Write("(y/n): ");
            choice = Convert.ToChar(Console.ReadLine());
        } while (choice == 'y');
```

```csharp
        //4
        Console.WriteLine("Multiples of 17 are :");
        for(int i=17; i<100; i+=17)
        {
            Console.WriteLine(i);
        }
        //5
        Console.Write("Enter a Number : ");
        int number = Convert.ToInt32(Console.ReadLine());
        int sum = 0;
        while(number != 0)
        {
            sum += number % 10;
            number /= 10;
        }
        Console.WriteLine("Sum of Digits of the Number : " + sum);
    }
}
```