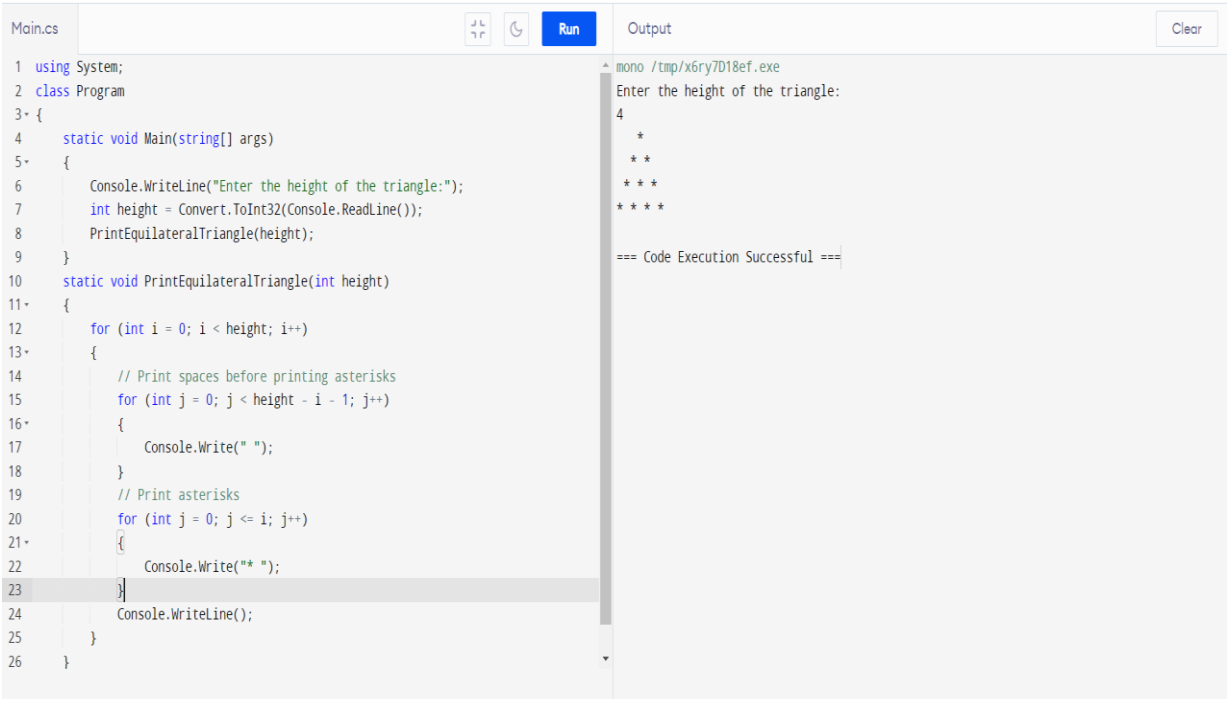
Question 1

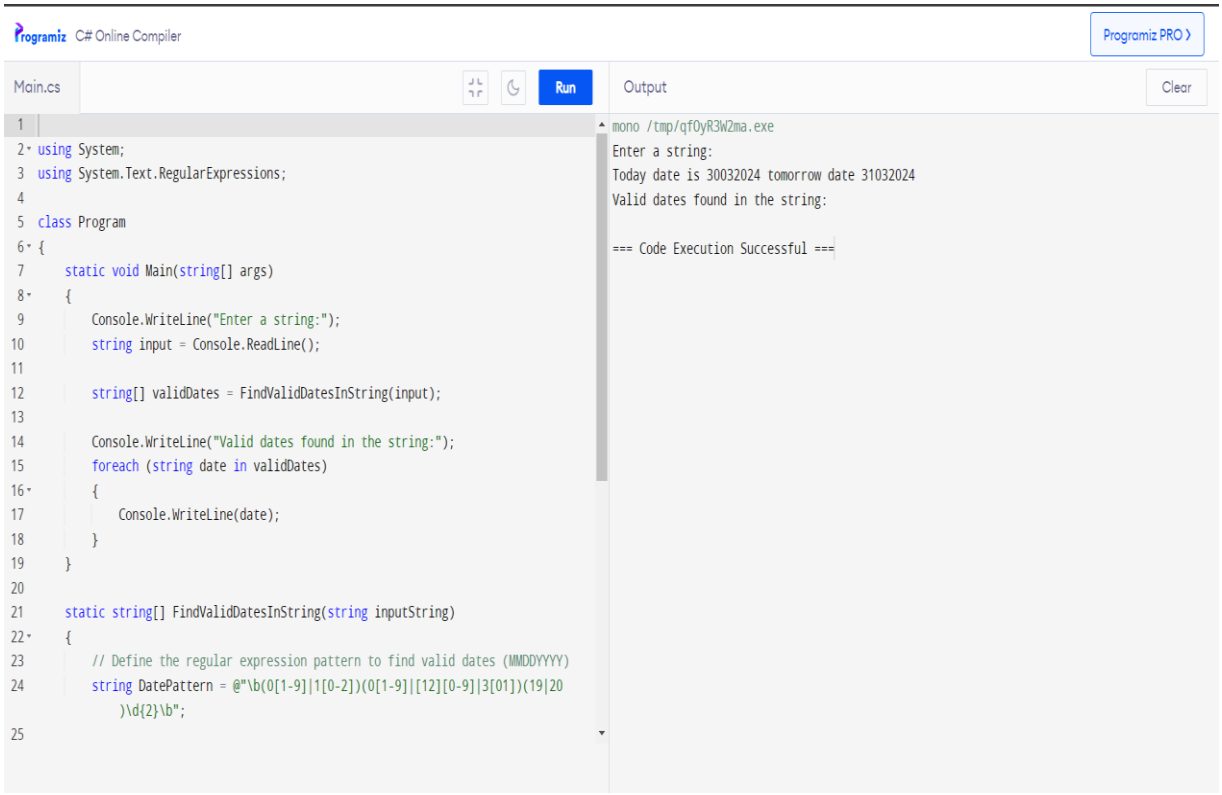
```
using System;
class Triangle
{
    static void Main(string[] args)
    {
        Console.WriteLine("Enter the height of the triangle:");
        int height = Convert.ToInt32(Console.ReadLine());
        PrintEquilateralTriangle(height);
    }

    static void PrintEquilateralTriangle(int height)
    {
        for (int i = 0; i < height; i++)
        {
            // Print spaces before printing asterisks
            for (int j = 0; j < height - i - 1; j++)
            {
                Console.Write(" ");
            }

            // Print asterisks
            for (int j = 0; j <= i; j++)
            {
                Console.Write("* ");
            }

            Console.WriteLine();
        }
    }
}
```



Question 2

```
using System;
using System.Text.RegularExpressions;
class Program
{
    static void Main(string[] args)
    {
        Console.WriteLine("Enter a string:");
        string input = Console.ReadLine();

        string[] validDates = FindValidDatesInString(input);

        Console.WriteLine("Valid dates found in the string:");
        foreach (string date in validDates)
        {
            Console.WriteLine(date);
```

```
        }
    }

    static string[] FindValidDatesInString(string inputString)
    {
        // Define the regular expression pattern to find valid dates (MMDDYYYY)
        string DatePattern = @"\b(0[1-9]|1[0-2])(0[1-9]|[12][0-9]|3[01])(19|20)\d{2}\b";

        // Create a regex object
        Regex regex = new Regex(DatePattern);

        // Find matches in the input string
        MatchCollection matches = regex.Matches(inputString);

        // Extract matched dates
        string[] dates = new string[matches.Count];
        for (int i = 0; i < matches.Count; i++)
        {
            dates[i] = matches[i].Value;
        }

        return dates;
    }

}
```


Programiz C# Online Compiler
Programiz PRO
Main.cs
Run
Output
Clear
1
2 using System;
3 using System.Text.RegularExpressions;
4
5 class Program
6 {
7 static void Main(string[] args)
8 {
9 Console.WriteLine("Enter a string:");
10 string input = Console.ReadLine();
11
12 string[] validDates = FindValidDatesInString(input);
13
14 Console.WriteLine("Valid dates found in the string:");
15 foreach (string date in validDates)
16 {
17 Console.WriteLine(date);
18 }
19 }
20
21 static string[] FindValidDatesInString(string inputString)
22 {
23 // Define the regular expression pattern to find valid dates (MMDDYYYY)
24 string DatePattern = @"\b(0[1-9]|1[0-2])(0[1-9]|[12][0-9]|3[01])(19|20
)\d{2}\b";
25
mono /tmp/qfOyR3W2ma.exe
Enter a string:
Today date is 30032024 tomorrow date 31032024
Valid dates found in the string:
=== Code Execution Successful ===