

DOT NET Assignment

By-Gowtham H M



March 2, 2024

1. **Print triangle - and allow user to set height of it in.**

using System;

class Program

{

static void Main(string[] args)

{

Console.Write("Enter the height of the triangle: ");

int height = Convert.ToInt32(Console.ReadLine());

PrintTriangle(height);

Console.ReadLine(); // Keep the console window open

}

static void PrintTriangle(int height)

{

for (int i = 0; i < height; i++)

{

for (int j = 0; j <= i; j++)

{

Console.Write("\* ");

}

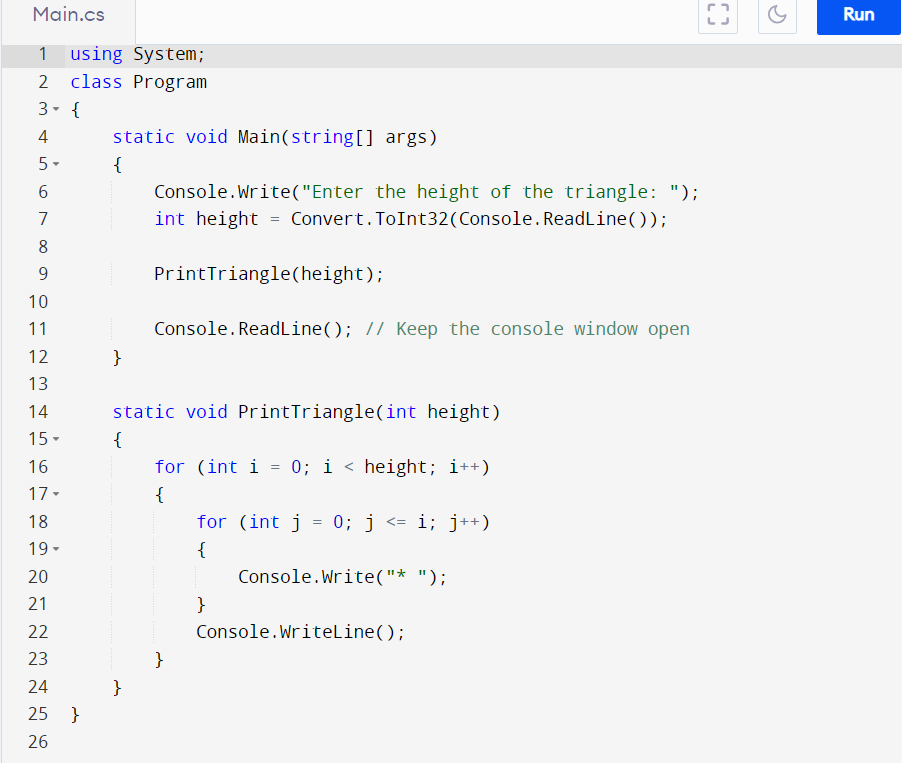
Console.WriteLine();

}

}

}

Output:



A screen shot of a computer

Description automatically generated

1. **Find valid date (MMDDYYYY) from string using System;**

using System.Text.RegularExpressions;

class Program

{

static void Main(string[] args)

{

string inputString = "The date is 02152024 and another date is 12312021, but 12345 is not a valid date.";

FindValidDates(inputString);

}

static void FindValidDates(string input)

{

// Define the regular expression pattern to match MMDDYYYY format

string pattern = @"\b(0[1-9]|1[0-2])(0[1-9]|[12]\d|3[01])(\d{4})\b";

// Create a Regex object

Regex regex = new Regex(pattern);

// Find matches in the input string

MatchCollection matches = regex.Matches(input);

// Print valid dates found

Console.WriteLine("Valid dates found:");

foreach (Match match in matches)

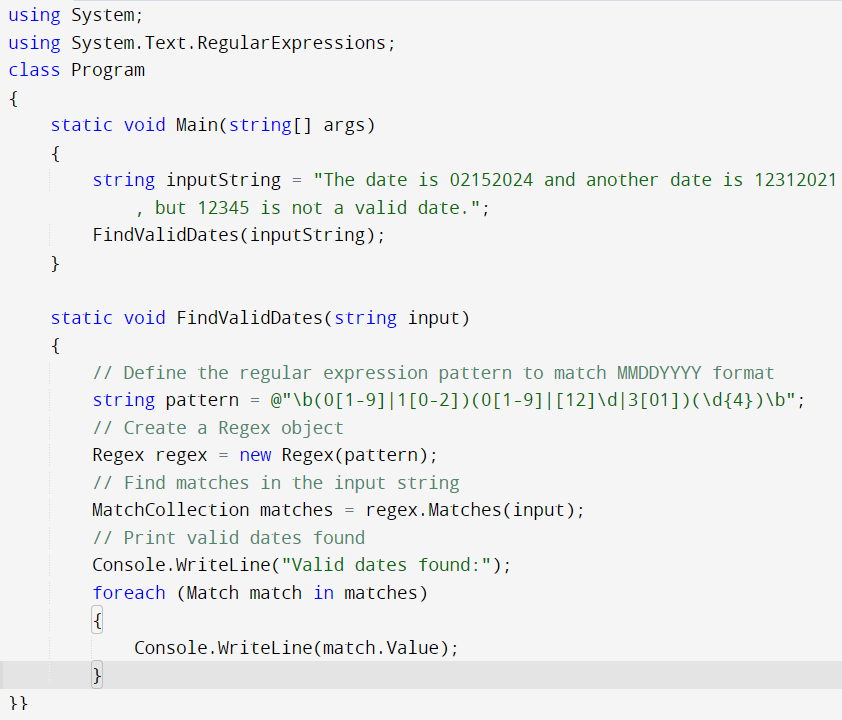
{

Console.WriteLine(match.Value);

}

}

}



A screenshot of a computer

Description automatically generated