```
1. Print triangle - and allow user to set height of it in. Like in the following case it's 4.
using System;
class Program
{
static void Main()
  {
    Console.Write("Enter the height of the triangle: ");
    int height = int.Parse(Console.ReadLine());
    PrintTriangle(height);
  }
static void PrintTriangle(int height)
  {
 for (int i = 1; i <= height; i++)
 {
  // Print spaces before each line
   for (int j = 0; j < height - i; j++)
       {
     Console.Write("");
       }
// Print stars for each line
       for (int k = 0; k < 2 * i - 1; k++
```

```
{
        Console.Write("*");
}
// Move to the next line
      Console.WriteLine();
   }
  }
}
    Output
                                                                                         Clear
▲ mono /tmp/igQlTTUjYP.exe
   Enter the height of the triangle: 4
   *****
2. Find valid date (MMDDYYYY) from string.
For example :-
Hdjsh asd2324234jghjsd hjsdg sdhk 12212021 idf32432 32423 d34234jh dfh.
using System;
using System.Text.RegularExpressions;
class Program
{
  static void Main()
  {
    string input = "Hdjsh asd2324234jghjsd hjsdg sdhk 12212021 idf32432 32423 d34234jh dfh";
```

```
string pattern = @"\b(\d{2})(\d{4})\b";
  MatchCollection matches = Regex.Matches(input, pattern);
  foreach (Match match in matches)
  {
    string month = match.Groups[1].Value;
    string day = match.Groups[2].Value;
    string year = match.Groups[3].Value;
    if (IsValidDate(int.Parse(month), int.Parse(day), int.Parse(year)))
    {
      string date = month + day + year;
      Console.WriteLine(date);
    }
  }
}
static bool IsValidDate(int month, int day, int year)
{
  try
    DateTime date = new DateTime(year, month, day);
    return true;
  }
```

```
catch (ArgumentOutOfRangeException)
{
    return false;
}
}
```

## Output:

```
Output

mono /tmp/gAQeL998Ij.exe
12212021
```