Write a C# Sharp program to that takes three numbers(x,y,z) as input and print the output of (x+y).z and x.y + y.z. [Go to the editor](https://www.w3resource.com/csharp-exercises/basic/index.php#editorr)  
Test Data:  
Enter first number - 5  
Enter second number - 6  
Enter third number - 7  
  
Expected Output:  
Result of specified numbers 5, 6 and 7, (x+y).z is 77 and x.y + y.z is 72

public static void Main()

{

int number1, number2, number3;

Console.Write("Enter first number - ");

number1 = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter second number - ");

number2 = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter third number - ");

number3 = Convert.ToInt32(Console.ReadLine());

Console.Write("Result of specified numbers {0}, {1} and {2}, (x+y)·z is {3} and x·y + y·z is {4}\n\n",

number1, number2, number3, ((number1+number2)\*number3), (number1\*number2+number2\*number3));

}

-----------------------------------------------------------------------

Display the pattern like pyramid with numbers increased by 1

--------------------------------------------------------------

input number of rows : 5

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

using System;

public class Exercise13

{

public static void Main()

{

int i,j,spc,rows,k,t=1;

Console.Write("\n\n");

Console.Write("Display the pattern like pyramid with numbers increased by 1:\n");

Console.Write("---------------------------------------------------------------");

Console.Write("\n\n");

Console.Write("input number of rows : ");

rows= Convert.ToInt32(Console.ReadLine());

spc=rows+4-1;

for(i=1;i<=rows;i++)

{

for(k=spc;k>=1;k--)

{

Console.Write(" ");

}

for(j=1;j<=i;j++)

Console.Write("{0} ",t++);

Console.Write("\n");

spc--;

}

}

}

---------------------------------------------

Write a C# Sharp program to convert the last 3 characters of a given string in upper case. If the length of the string has less than 3 then uppercase all the characters. [Go to the editor](https://www.w3resource.com/csharp-exercises/basic-algo/index.php#editorr)

Expected Output:

PytHON

JavascrIPT

JS

PHP

class Program

{

static void Main(string[] args)

{

Console.WriteLine(test("Python"));

Console.WriteLine(test("Javascript"));

Console.WriteLine(test("js"));

Console.WriteLine(test("PHP"));

Console.ReadLine();

}

public static string test(string str)

{

return str.Length < 3 ? str.ToUpper() : str.Remove(str.Length - 3) + str.Substring(str.Length - 3).ToUpper();

}

}

------------------------------------

C# Program to Create a HangMan Game

In this C# program, we are reading any word using ‘guess’ variable. The words are guessed by the user and the game is continued. Using for loop we are entering the ‘\*’ to the guess variable. Initialize the value of ‘p’ variable as 0, and check the condition that the value of ‘p’ variable value is less than length of the ‘mysteryWord’ variable.

While loop is used to execute the statement, if condition statement is used to check the value of ‘playerGuess’ variable is equal to the length of the value of ‘mysteryWord’ variable. If the condition is true then execute the statement.

Welcome to Hangman!!!!!!!!!!

Please enter your guess: i

\*\*\*\*

a

\*\*a\*

e

\*\*a\*

g

g\*a\*

o

goa\*

t

goat

**namespace** Hangman

{

**class** Program

{

**static** **void** Main(**string**[] args)

{

Console.WriteLine("Welcome to Hangman!!!!!!!!!!");

**string**[] listwords = new **string**[10];

listwords[0] = "sheep";

listwords[1] = "goat";

listwords[2] = "computer";

listwords[3] = "america";

listwords[4] = "watermelon";

listwords[5] = "icecream";

listwords[6] = "jasmine";

listwords[7] = "pineapple";

listwords[8] = "orange";

listwords[9] = "mango";

Random randGen = new Random();

**var** idx = randGen.Next(0, 9);

**string** mysteryWord = listwords[idx];

**char**[] guess = new **char**[mysteryWord.Length];

Console.Write("Please enter your guess: ");

**for** (**int** p = 0; p < mysteryWord.Length; p++)

guess[p] = '\*';

**while** (**true**)

{

**char** playerGuess = **char**.Parse(Console.ReadLine());

**for** (**int** j = 0; j < mysteryWord.Length; j++)

{

**if** (playerGuess == mysteryWord[j])

guess[j] = playerGuess;

}

Console.WriteLine(guess);

}

}

}

}