C# Interview questions:

C# programming syntax:

Program 1 🡪 Basic program

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

using System;

namespace CSharpProgramming.BasicProgrammes // a namespace - used for organization

{

class HelloWorld // a class - has members (such as a method)

{

public static void Main(String[] args) // a method - contains a block of code

{

Console.WriteLine(); // fully qualified name

Console.WriteLine("Hello world"); // a statements

/\*In C# multiple line comments

\* Check

\* \*/

}

}

}//namespace --> classes --> members --> methods --> statements

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Program 2 🡪 user input program

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

using System;

namespace ConsoleApp1\_Programming

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter the n value: ");

int n = int.Parse(Console.ReadLine());

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

{

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

{

Console.Write(" \*");

}

Console.WriteLine(" ");

}

Console.WriteLine("Expected pattern is printed");

Console.ReadLine();

}

}

}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Output:

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

Program 3 🡪 Repeated char in a string

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

class Program

{

static void Main(string[] args)

{

Countcharacter("google");

Console.ReadLine();

}

internal static void Countcharacter(string str)

{

Dictionary<char, int> count = new Dictionary<char, int>();

foreach (var character in str)

{

if (character != ' ')

{

if (!count.ContainsKey(character))

{

count.Add(character, 1);

}

else

{

count[character]++;

}

}

}

foreach (var character in count)

{

//Console.WriteLine("{0} - {1}", character.Key, character.Value);

if(character.Value>1)

{

Console.WriteLine("{0} - {1}", character.Key, character.Value);

}

}

}

}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Program 4 🡪 Repeated strings in a sentence

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

class Program

{

static void Main(string[] args)

{

String string1 = "vidya is vidya and pavani is vidya";

int count;

//Converts the string into lowercase

string1 = string1.ToLower();

//Split the string into words using built-in function

String[] words = string1.Split(' ');

Console.WriteLine("Duplicate words in a given string : ");

for (int i = 0; i < words.Length; i++)

{

count = 1;

for (int j = i + 1; j < words.Length; j++)

{

if (words[i].Equals(words[j]))

{

count++;

//Set words[j] to 0 to avoid printing visited word

words[j] = "0";

}

}

//Displays the duplicate word if count is greater than 1

if (count > 1 && words[i] != "0")

{

//Console.WriteLine(words[i]);

//Console.WriteLine(count);

Console.WriteLine("The repeated words are : "+words[i]+" : "+count);

}

}

Console.ReadLine();

}

}