M.chidanand

Day-2 Exercise

1.Write a program to concatenate two string variables?

Ans:

string a = "Hi ";

string b = "This is";

string c = " Chidanand";

Console.WriteLine(string.Concat(a,b,c));

Text

Description automatically generated

2. Explain any 5 methods of strings with example?

**Concat:** A concat method in C# helps combine or concatenate several strings. It returns a combined string.

**Upper():**

A upper Method is used to convert string into uppercase. It returns a string

**Copy():**

ACopy() method is used to create a new instance of String with the same value as a specified String. It is a static method of String class. Its return type is string.

**Join():**

A Join() methods is used to concatenate the elements of an array, using the specified separator between each element. It returns a modified string.

**Replace():**

Replace() method is used to get a new string in which all occurrences of a specified Unicode character in this string are replaced with another specified Unicode character.

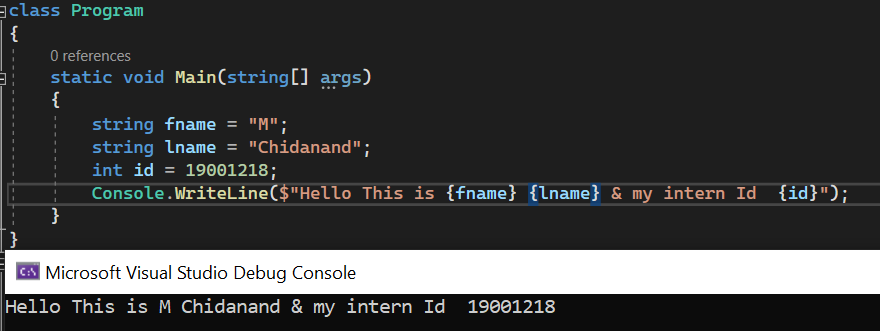
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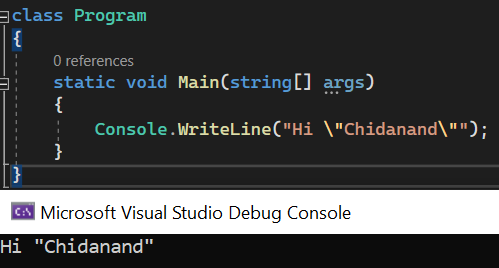
.

3 Explain String Interpolation with an example?

Single interpolation is a method of concatenating, formatting, and manipulating strings



4 How do you assign a string value which has double quotes within it?



5 Write a program to find the number of times a substring appears in a given string?

Ans:

class Program

{

static void Main(string[] args)

{

string a=Console.ReadLine();

String b =Console.ReadLine();

int Count = 0;

for (int i = 0; i <= (a.Length - b.Length); i++)

{

String result = a.Substring(i, b.Length);

if (result.Equals(b))

{

Count += 1;

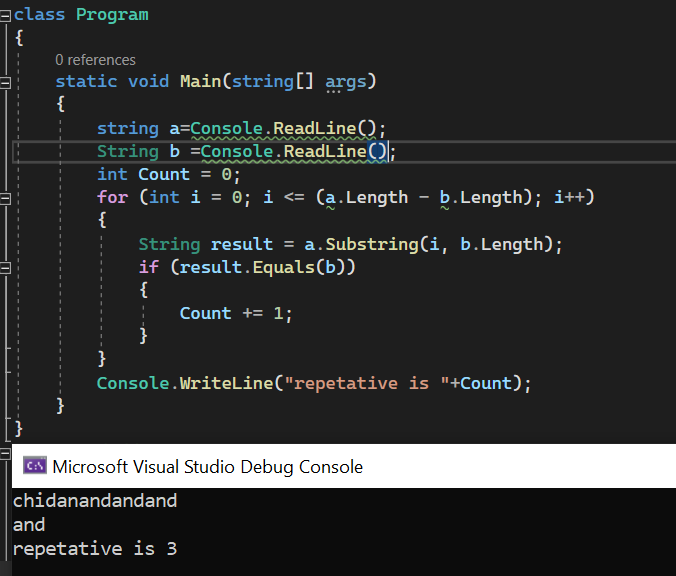
}

}

Console.WriteLine("repetative is "+Count);

}

}

  
6 Create a string array of 10 elements and print all the elements in the even index?

string[] a = { "zero","one", "two", "three", "four", "five", "six", "seven", "eight", "nine","ten" };

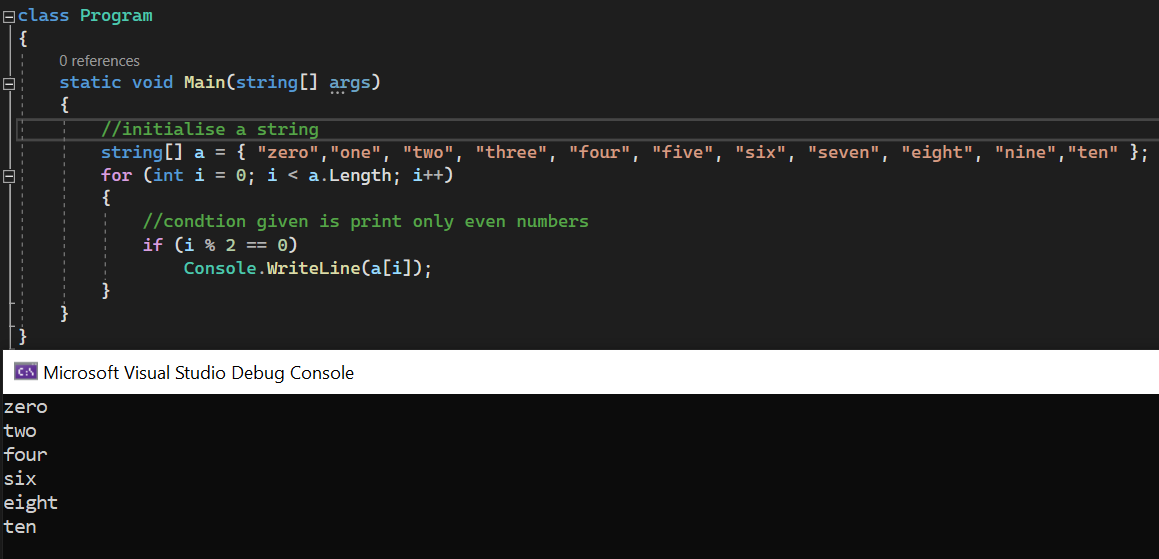
for (int i = 0; i < a.Length; i++)

{

//condtion given is print only even numbers

if (i % 2 == 0)

Console.WriteLine(a[i]);



7 Create a array of elements and loop through it using the foreach loop?

Ans:

class Program

{

static void Main(string[] args)

{

string[] arr = { "My","Name","is","chidanand" };

foreach (string i in arr)

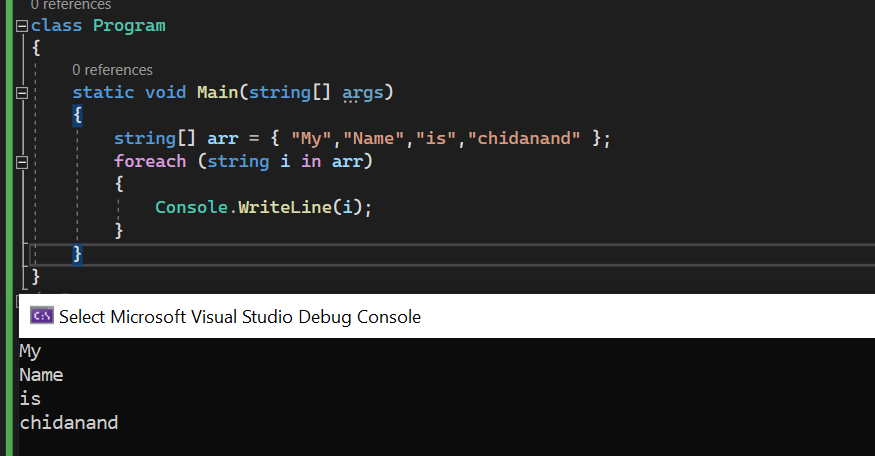
{

Console.WriteLine(i);

}

}

}

  
8 What is a multidimensional array?

The multidimensional array is also known as rectangular arrays in C#. It can be two dimensional or three dimensional. The data is stored in tabular form (row \* column) which is also known as matrix.

9 Create a 2D array and loop through it and display the value at index [1,2]?

Ans:

int rowSize = 3;

int colSize = 3;

int[,] arr = new int[rowSize, colSize];

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

{

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

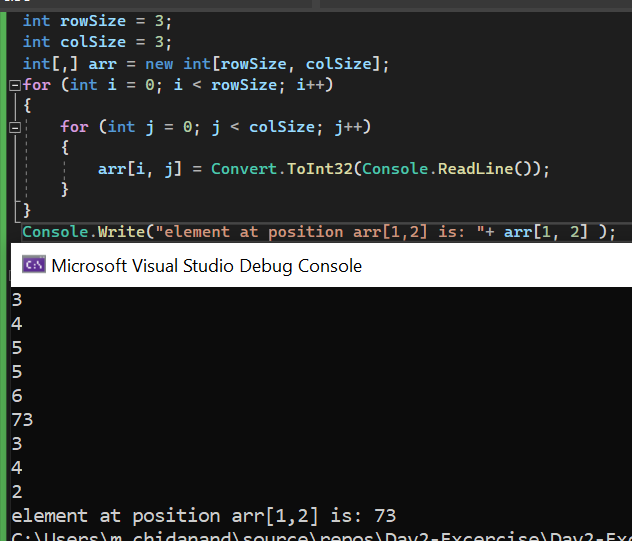
{

arr[i, j] = Convert.ToInt32(Console.ReadLine());

}

}

Console.Write("element at position arr[1,2] is: "+ arr[1, 2]);



10 What is Enums and how will you use it?

Enum in C# is also known as enumeration. It is used to store a set of named constants such as season, days, month, size etc. The enum constants are also known as enumerators. Enum in C# can be declared within or outside class.

Eg:

class Function

{

enum a

{

Jan,

Feb,

Mar=3,

Apr,

May,

Jun,

Jul

}

static void Main(string[] args)

{

int month = (int)a.May;

Console.WriteLine(month);

}

}

Text

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11 C# File class belongs to which namespace?

Ans: The C# file class belongs to System.io

12 Write a program to create a file and write the string value inside it?

Ans:

StreamWriter chidanand = new StreamWriter("C:\\Users\\m.chidanand\\OneDrive - Dedalus S.p.A\\Documents\\Visual Studio 2022\\temp.txt");

string[] chida = { "Monday", "tuesday", "wednesday", "thursday" ,"friday"};

foreach(string i in chida)

{

chidanand.WriteLine(i);

}

chidanand.Close();

Graphical user interface, text, application

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13 Explain any three methods of File class with an example?

Ans:

Create():

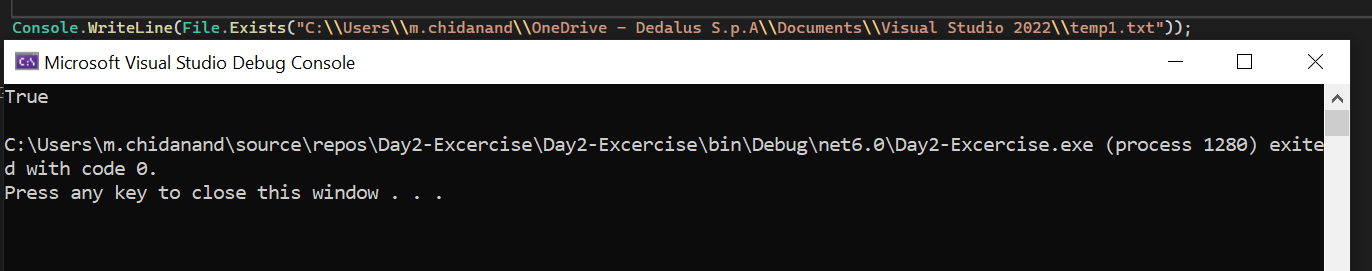
File.Create("C:\\Users\\m.chidanand\\OneDrive - Dedalus S.p.A\\Documents\\Visual Studio 2022\\temp1.txt");

Table

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Exists()-

Console.WriteLine(File.Exists("C:\\Users\\m.chidanand\\OneDrive - Dedalus S.p.A\\Documents\\Visual Studio 2022\\temp1.txt"));

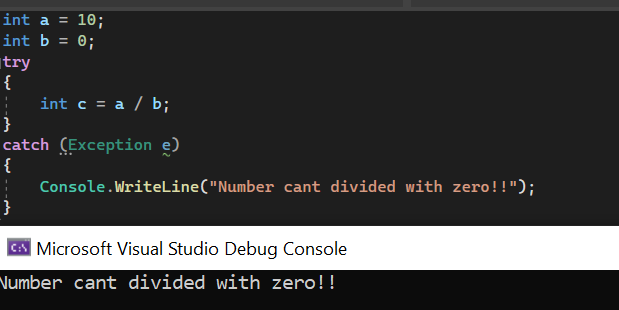


Delete()-

File.Delete("C:\\Users\\m.chidanand\\OneDrive - Dedalus S.p.A\\Documents\\Visual Studio 2022\\temp1.txt");

14 How do you handle exceptions in C#? Explain with an example?

Ans:



15 What is the use of finally in C# exceptions?

Ans:

By using a finally block, you can clean up any resources that are allocated in a try block, and you can run code even if an exception occurs in the try block.

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16.What is the purpose of throw keyword? Explain with an example?

throw can also be used in a catch block to re-throw an exception handled in a catch block

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