**Part 8 - C# Tutorial - Arrays in C#**

**In this video, we will discuss**  
**1.** Arrays  
**2.** Advantages and dis-advantages of arrays  
**An array is a collection of similar data types.**  
  
using System;  
class Program  
{  
    public static void Main()  
    {  
        // Initialize and assign values in different lines  
        int[] EvenNumbers = new int[3];  
        EvenNumbers[0] = 0;  
        EvenNumbers[1] = 2;  
        EvenNumbers[2] = 4;  
  
        // Initialize and assign values in the same line  
        int[] OddNumbers = { 1, 3, 5};  
  
        Console.WriteLine("Printing EVEN Numbers");  
  
        // Retrieve and print even numbers from the array  
        for (int i = 0; i < EvenNumbers.Length; i++)  
        {  
            Console.WriteLine(EvenNumbers[i]);  
        }  
  
        Console.WriteLine("Printing ODD Numbers");  
  
        // Retrieve and print odd numbers from the array  
        for (int i = 0; i < OddNumbers.Length; i++)  
        {  
            Console.WriteLine(OddNumbers[i]);  
        }  
    }  
}

**Advantages:** Arrays are strongly typed.  
  
**Disadvantages:** Arrays cannot grow in size once initialized. Have to rely on integral indices to store or retrieve items from the array.