Faculty of Technology

University of Sri Jayewardenepura

Discussion Topics

Fundamentals of Multimedia

ICT 2342

Lecturer

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1

```
*using logic
using System;

namespace lab3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t ** Print Min and Max of a given Array **\n");
            int[] samplearray = { 23, 45, 67, 80, 97, 65, 42, 18, 97, 63, 39, 52 };
            Console.WriteLine("\n* Array :- {0} ",String.Join(",", samplearray));

            int min = samplearray[0], max = samplearray[0];
            for (int i = 0; i < samplearray.Length; i++)
            {
                if (min > samplearray[i])
                {
                    min = samplearray[i];
                }
                else if (max < samplearray[i])
                {
                    max = samplearray[i];
                }
            }
            Console.WriteLine("\n* Maximum value of the Array :- {0}\n* Minimum value of
the Array :- {1}", max, min);
            Console.ReadKey();
        }
    }
}
```

```
*using Libraries

using System;

namespace lab3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t ** Print Min and Max of a given Array **\n");
            int[] samplearray = { 23, 45, 67, 80, 97, 65, 42, 18, 97, 63, 39, 52 };
            Console.WriteLine("\n* Array :- {0} ",String.Join(",", samplearray));

            Console.WriteLine("\n* Maximum value of the Array :- {0}\n* Minimum value of
the Array :- {1}",samplearray.Max() , samplearray.Min());
            Console.ReadKey();
        }
    }
}
```

2.

*using logic

```
using System;

namespace lab3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t ** Print Sum and Average of a given Array **\n");
            int[] samplearray = { 23, 45, 67, 80, 97, 65, 42, 18, 97, 63, 39, 52 };
            Console.WriteLine("\n* Array :- {0}", String.Join(",", samplearray));
            double Sum=0, Ave;
            for(int i=0; i < samplearray.Length; i++)
            {
                Sum += samplearray[i];
            }
            Ave=Sum/(samplearray.Length)-1 ;
            Console.WriteLine("\n* Sum of the Array :- {0:f2} \n* Average of the Array
:-  {1:f2}",Sum , Ave);
            Console.ReadKey();
        }
    }
}
```

Using libraries

```
using System;

namespace lab3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t ** Print Sum and Average of a given Array **\n");
            int[] samplearray = { 23, 45, 67, 80, 97, 65, 42, 18, 97, 63, 39, 52 };
            Console.WriteLine("\n* Array :- {0}", String.Join(",", samplearray));
            double ave = Queryable.Average(samplearray.AsQueryable());
            //double Sum=0, Ave;
            Console.WriteLine("\n* Sum of the Array :- {0:f2} \n* Average of the Arr :-
{1:f2}", samplearray.Sum(), Queryable.Average(samplearray.AsQueryable()));

            Console.ReadKey();
        }
    }
}
```

3.

```
class Program
{
	static void Main(string[] args)
	{
		int[] arr = { 12, 54, 69, 41, 3, 99, 11, 27 };
		Array.Sort(arr);
		Console.WriteLine("The second largest number of the array: " + arr[1]);
	}
}
```

4.

```
    static void Main(string[] args)
        {

            int[] arr = { 12, 54, 69, 41, 3, 99, 11, 27 };
            Console.Write("Odd numbers in the array: ");
               for (int i = 0; i < arr.Length; i++)
               {
                   if (arr[i] % 2 == 1)
                       Console.Write(arr[i] + "\t");
               }


        }
```

5.

```
static void Main(string[] args)
        {
            int[] arr = { 12, 54, 69, 41, 3, 99, 11, 27 };

            int[] b = new int[arr.Length];

            int index, place;
            int length = arr.Length;

            for (int i = 0; i < length; i++)
            {
                index = i - 1;
                place = length + index;
                if (index >= 0)
                {
                    b[index] = arr[i];
                }
                else
                {
                    b[place] = arr[i];
                }

            }
            foreach (int i in b)
                Console.Write("{0}\t", i.ToString());

        }
```

6.
```
static void Main(string[] args)
        {

            string[] arr = { "Methmi", "Sugandika", "Gayathma", "Dinushika", "Chathu",
"Paba", "Sheshani", "Saneeka" };
            string longestWord = arr[0];
            int[] lenghtArray = new int[arr.Length];
            foreach (string word in arr)
            {
                if (word.Length > longestWord.Length) longestWord = word;
            }
            Console.WriteLine("The longest word of the array: " + longestWord);
        }
```

7.

```
class Employee
        {
            string name, address;
            int age;
            public Employee(string message)
            {
                Console.WriteLine(message);
            }
            public Employee(string name, int age, string address)
            {
                this.name = name;
                this.age = age;
                this.address = address;
            }
        }
        class Program
        {
            static void Main(string[] args)
            {
                Employee adminTeam = new Employee("We belong to Administration");
                Employee marketingTeam = new Employee("We belong to Marketing");
            }
        }
```

8.

```
    string CustName,Address;
       int CustOrder;

       public Customer(string CustName,string Address,int CustOrder)
       {

           this.CustName = CustName;
           this.Address = Address;
```

```
            this.CustOrder = CustOrder;
        }

        public static void Main()
        {


            Customer Customer1 = new;

            Customer1.CustName = "Methmi";
            Customer1.Address = "50,Mahavita,Yakkala";
            Customer1.CustOrder = 11025;

        }
```

9.

```
class Vehicle
        {
            public string brandName, model, colour;
            public void driveFast()
            {
                Console.WriteLine("Vehicle is driving fast");
            }
            public void applyBreak()
            {
                Console.WriteLine("Vehicle is breaking");
            }
        }
```

10.

```
    class Animal
        {
            public string name, breed, age;
            public void run()
            {
                Console.WriteLine("Animal is running");
            }
        }
        class Dog : Animal
        {
            public void bark()
            {
                Console.WriteLine("Dog is barking");
            }
        }
```