UNIVERSITY OF SRI JAYEWARDENEPURA

Faculty of Technology

Department of Information and Communication Technology

ITC 2303 - Visual Application Programming

Laboratory Exercise 03

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Index No: ICT/20/884

01.

```
class Program
    {
        static void Main(string[] args)
        {
            int[] arr = { 2, 5, 8, 4, 3, 9, 1, 7 };

            int min = arr[0], max = arr[0];

            for (int i = 0; i < arr.Length; i++)
            {
                if (arr[i] > max) max = arr[i];
                if (arr[i] < min) min = arr[i];
            }

            Console.WriteLine("Min: " + min);
            Console.WriteLine("Max: " + max);
        }
    }
```

02.

```
class Program
    {
        static void Main(string[] args)
        {
            int[] arr = { 2, 5, 8, 4, 3, 9, 1, 7 };
            int sum = 0;

            for (int i = 0; i < arr.Length; i++)
            {
                sum += arr[i];
            }

            int average = sum / arr.Length;

            Console.WriteLine("The sum of the array: " + sum);
            Console.WriteLine("The average of the array: " + average);
        }
    }
```

03.

```
class Program
    {
        static void Main(string[] args)
        {
            int[] arr = { 2, 5, 8, 4, 3, 9, 1, 7 };

            Array.Sort(arr);

            Console.WriteLine("The second largest number of the array: " +
arr[1]);
        }
    }
```

04.

```
class Program
    {
        static void Main(string[] args)
        {
            int[] arr = { 2, 5, 8, 4, 3, 9, 1, 7 };

            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");
            }
        }
    }
```

05.

```
class Program
    {
        static void Main(string[] args)
        {
            int[] arr = { 2, 5, 8, 4, 3, 9, 1, 7 };
            int[] leftArray = new int[arr.Length];

            for (int i = 0; i < arr.Length - 1; i++)
            {
                leftArray[i] = arr[i + 1];
            }
            leftArray[arr.Length - 1] = arr[0];

            Console.Write("Org Array: \t");
            for (int i = 0; i < arr.Length; i++)
            {
                Console.Write(arr[i] + "\t");
            }
            Console.WriteLine("");

            Console.Write("New Array: \t");
            for (int i = 0; i < leftArray.Length; i++)
            {
                Console.Write(leftArray[i] + "\t");
            }
        }
    }
```

06.

```
class Program
    {
        static void Main(string[] args)
        {
            string[] words = { "Faculty", "of", "Technology" };
            string longestWord = words[0];

            int[] lenghtArray = new int[words.Length];

            foreach (string word in words)
            {
                if (word.Length > longestWord.Length) longestWord = word;
            }

            Console.WriteLine("The longest word of the array: " +
longestWord);
        }
    }
```

07.

```
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");
        }
    }
```

08.

```
class Vehicle
    {
        public string brandName, model, colour;

        public void driveFast()
        {
            Console.WriteLine("Vehicle is driving fast");
        }

        public void applyBreak()
        {
            Console.WriteLine("Vehicle is breaking");
        }

    }
```

09.

```
class Customer
    {
        public string name, address, order;

        Customer(string name, string address, string order)
        {
            this.name = name;
            this.address = address;
            this.order = order;
        }
    }
```

10.

```
class Animal
    {
        public string name, breed, age;

        public void run()
        {
            Console.WriteLine("Animal is running");
        }
    }

    class Dog : Animals
    {
        public void bark()
        {
            Console.WriteLine("Dog is barking");
        }
    }
```