

Practical 1: working with basic C# and ASP.NET

A. Create simple application to perform foll operations

- i. Create an application that obtains firstname and lastname from the user and displays the output as “Hello **firstname**. Hope you don’t mind us addressing you as **lastname**”.

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Practical1a
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter your first name");
            string firstname = Console.ReadLine();
            Console.Write("Enter your last name:");
            string lastname = Console.ReadLine();
            Console.WriteLine("Hello " + firstname + ". Hope you don't mind
u addressing as "+lastname);
            Console.ReadLine();
        }
    }
}
```

Output:

```
Enter your Firstname:
arsh
Enter your Lastname:
kapadia
Hello arsh . Hope you don't mind us addressing you as kapadia.
```

- ii. Create an application that obtain 2 int values

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Practica1a
{
    class Arithmetic
    {
        static void Main(string[] args)
        {
            Console.Write("Enter first number:");
            int firstNum =
            Int32.Parse(Console.ReadLine());
            Console.Write("Enter second number:");
            int secondNum =
            Int32.Parse(Console.ReadLine());
            Console.WriteLine(firstNum + "+" +
            secondNum + "=" + (firstNum + secondNum));
            Console.WriteLine(firstNum + "-" +
            secondNum + "=" + (firstNum - secondNum));
            Console.WriteLine(firstNum + "*" +
            secondNum + "=" + firstNum * secondNum);
            Console.WriteLine(firstNum + "/" +
            secondNum + "=" + firstNum / secondNum);
            Console.WriteLine(firstNum + "%" +
            secondNum + "=" + firstNum % secondNum);
            Console.ReadLine();
        }
    }
}
```

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Output:

```
Enter first number:4
Enter second number:5
4+5=9
4-5=-1
4*5=20
4/5=0
4%5=4
```

iii. Create a program to Finding factorial of a number

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Practica1a
{
    class factorial
    {
        static void Main(string[] args)
        {
            int i, fact = 1, number;
            Console.Write("Enter any number:");
            number = int.Parse(Console.ReadLine());
            for (i = 1; i <= number; i++)
            {
                fact = fact * i;
            }
            Console.Write("Factorial of " + number + "
is: " + fact);
            Console.ReadLine();
        }
    }
}
```

Output:

```
Enter any number:6
Factorial of 6 is: 720
```

B. Create an application to demonstrate array and string(assignment) operations
Operations are :

1. Copy(Array,Array,int32)
2. IndexOf(Array,object)
3. Reverse(Array)
4. Sort(Array)

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Practical1a
{
    class Arrayoperations
    {
        static void Main(String[] args)
        {
            int[] arr = new int[6] { 5, 8, 9, 25, 0, 7 };
            int[] arr2 = new int[6];

            Console.WriteLine("Length of first array" + arr.Length);
            Array.Sort(arr);
            Console.WriteLine("First array elements: ");
            PrintArray(arr);

            Console.WriteLine("\nIndex position of 25 is " + Array.IndexOf(arr,
25));

            Array.Copy(arr, arr2, arr.Length);
            Console.WriteLine("second array elements:");
            PrintArray(arr2);

            Array.Reverse(arr);
            Console.WriteLine("\nFirst array element in reverse order:");
            PrintArray(arr);
            Console.Read();
        }

        static void PrintArray(int[] arr)
        {
            foreach (Object elem in arr)
            {
                Console.Write(elem + " ");
            }
        }
    }
}
```

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Output:

```
Length of first array6  
First array elements:  
0 5 7 8 9 25  
Index position of 25 is 5  
second array elements:0 5 7 8 9 25  
First array element in reverse order:25 9 8 7 5 0
```

- C. Create an application that receives the foll information from a set of students: StudentId, StudentName , courseName, Date of Birth. The application should also display the information of all the student once the data entered

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Practica1a
{
    class student
    {
        struct Student
        {
            public string studid, name, cname;
            public int day, month, year;
        }
        static void Main(string[] args)
        {
            Student[] s = new Student[5];
            int i;
            for (i = 0; i < 3; i++)
            {
                Console.Write("Enter Student Id:");
                s[i].studid = Console.ReadLine();
                Console.Write("enter student name:");
                s[i].name = Console.ReadLine();
                Console.Write("enter course name:");
                s[i].cname = Console.ReadLine();
                Console.Write("enter date of birth\n enter day(1-31)");
                s[i].day = Convert.ToInt32(Console.ReadLine());
                Console.Write("enter month(1-12)");
                s[i].month = Convert.ToInt32(Console.ReadLine());
                Console.Write("enter year");
                s[i].year = Convert.ToInt32(Console.ReadLine());
            }
            Console.WriteLine("\n\nStudent' List\n");
            for (i = 0; i < 3; i++)
            {
                Console.WriteLine("\nStudent's ID :" + s[i].studid);
                Console.WriteLine("\nStudent's name :" + s[i].name);
                Console.WriteLine("\nCourse name :" + s[i].cname);
                Console.WriteLine("\nDate of Birth(dd-mm-yy) :" + s[i].day + "." +
s[i].month + "." + s[i].year);
            }
            Console.Read();
        }
    }
}
```

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Output:

```
enter course name:it
enter date of birth
  enter day(1-31)22
enter month(1-12)08
enter year2004
Enter Student Id:2 jhjf
enter student name:ndjd
enter course name:23
enter date of birth
  enter day(1-31)55
enter month(1-12)43
enter year5522
Enter Student Id:3
enter student name:nff
enter course name:hfjd
enter date of birth
  enter day(1-31)87
enter month(1-12)75
enter year8830
```

Student' List

Student's ID :1

```
Course name :it
Date of Birth(dd-mm-yy) :22.8.2004
Student's ID :2 jhjf
Student's name :ndjd
Course name :23
Date of Birth(dd-mm-yy) :55.43.5522
Student's ID :3
```


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```
Student' List
```

```
Student's ID :1
```

```
Course name :it
```

```
Date of Birth(dd-mm-yy) :22.8.2004
```

```
Student's ID :2 jhjf
```

```
Student's name :ndjd
```

```
Course name :23
```

```
Date of Birth(dd-mm-yy) :55.43.5522
```

```
Student's ID :3
```

```
Student's name :nff
```

```
Course name :hfjd
```

```
Date of Birth(dd-mm-yy) :87.75.8830
```