IUBAT - International University of Business, Agriculture and Technology

Visual Programming Lab
CSC 440

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Screenshot 1 — main.cs (Program01)

```csharp
using System;
namespace LabClass02
{
    class Program01
    {
        static void Main(string[] args)
        {
            int i;
            Console.Write("Enter a Number: ");
            i=int.Parse(Console.ReadLine());
            if(i%2==0)
            {
                Console.Write("Entered Number is an Even Number");
                Console.Read();
            }
            else
            {
                Console.Write("Entered Number is an Odd Number");
                Console.Read();
            }
        }
    }
}
```

Output:
```
Enter a Number: 17103333
Entered Number is an Odd Number

...Program finished with exit code 0
Press ENTER to exit console.
```

Screenshot 2 — main.cs (Program02)

```csharp
using System;
namespace LabClass02
{
    class Program02
    {
        static void Main(string[] args)
        {
            int num1, num2, temp;
            Console.Write("Enter the First Number: ");
            num1=int.Parse(Console.ReadLine());
            Console.Write("Enter the Second Number: ");
            num2=int.Parse(Console.ReadLine());
            temp=num1;
            num1=num2;
            num2=temp;
            Console.WriteLine("\nAfter Swapping: ");
            Console.WriteLine("First Number: " + num1);
            Console.WriteLine("Secont Number: " + num2);
            Console.Read();
        }
    }
}
```

Output:
```
Enter the First Number: 1710
Enter the Second Number: 3333

After Swapping:
First Number: 3333
Secont Number: 1710
```

main.cs

```csharp
using System;
namespace LabClass02
{
    class Program03
    {
        static void Main(string[] args)
        {
            /*local variable definition*/
            int a=1710;
            /*check the boolean condition using if statement*/
            if(a<3333)
            {
                /*if condition is true then print the following*/
                Console.WriteLine("a is less than 3333");
            }
            Console.WriteLine("value of a is: {0}",a);
            Console.Read();
        }
    }
}
```

input
```
a is less than 3333
value of a is: 1710
```

main.cs

```csharp
using System;
namespace LabClass02
{
    class Program04
    {
        static void Main(string[] args)
        {
            /*local variable definition*/
            int a=3333;
            /*check the boolean condition using if statement*/
            if(a<1710)
            {
                /*if condition is true then print the following*/
                Console.WriteLine("a is less than 1710");
            }
            else
            {
                /*if condition is false then print the following*/
                Console.WriteLine("a is not less than 1710");
            }
            Console.WriteLine("value of a is: {0}",a);
            Console.Read();
        }
    }
}
```

input
```
a is not less than 1710
value of a is: 3333
```

main.cs

```csharp
using System;
namespace LabClass02
{
    class Program05
    {
        static void Main(string[] args)
        {
            double d=5673.74;
            int i;

            /*cast double to int*/
            i=(int)d;

            Console.WriteLine(i);
            Console.Read();
        }
    }
}
```

input
```
5673
```

---

main.cs

```csharp
using System;
namespace LabClass02
{
    class Program06
    {
        static void Main(string[] args)
        {
            /*creating integer type variable*/
            int num1, num2, result;

            /*display message*/
            Console.WriteLine("Please enter first value");
            /*accepting value in num1*/
            num1=Int32.Parse(Console.ReadLine());

            /*display message*/
            Console.WriteLine("Please enter second value");
            /*accepting value in num2*/
            num2=Int32.Parse(Console.ReadLine());

            /*processing value*/
            result=num1+num2;

            /*output*/
            Console.WriteLine("Add of {0} and {1} is {2}", num1, num2, result);
            Console.Read();
        }
    }
}
```

input
```
Please enter first value
17100000
Please enter second value
3333
Add of 17100000 and 3333 is 17103333
```

```csharp
using System;
namespace LabClass02
{
    class Program07
    {
        static void Main(string[] args)
        {
            /*for loop execution*/
            for(int i=10; i<20; i=i+1)
            {
                Console.WriteLine("value of i: {0}", i);
            }

            Console.Read();
        }
    }
}
```

```
value of i: 10
value of i: 11
value of i: 12
value of i: 13
value of i: 14
value of i: 15
value of i: 16
value of i: 17
value of i: 18
value of i: 19
```

```csharp
using System;
namespace LabClass02
{
    class Program08
    {
        static void Main(string[] args)
        {
            /*local variable definition*/
            int i=10;

            /*while loop execution*/
            while(i<20)
            {
                Console.WriteLine("value of i: {0}", i);
                i++;
            }

            Console.Read();
        }
    }
}
```

```
value of i: 10
value of i: 11
value of i: 12
value of i: 13
value of i: 14
value of i: 15
value of i: 16
value of i: 17
value of i: 18
value of i: 19
```

main.cs

```csharp
using System;
namespace LabClass02
{
    class Program09
    {
        static void Main(string[] args)
        {
            /*local variable definition*/
            int i=10;

            /*do loop execution*/
            do
            {
                Console.WriteLine("value of i: {0}", i);
                i=i+1;
            }
            while(i<20);

            Console.Read();
        }
    }
}
```

input
```
value of i: 10
value of i: 11
value of i: 12
value of i: 13
value of i: 14
value of i: 15
value of i: 16
value of i: 17
value of i: 18
value of i: 19
```

main.cs

```csharp
using System;
namespace LabClass02
{
    class Program10
    {
        static void Main(string[] args)
        {
            /*declaring array*/
            string[] arr=new string[5];

            /*storing value in array element*/
            arr[0]="Stevem";
            arr[1]="Clark";
            arr[2]="Mark";
            arr[3]="Thompson";
            arr[4]="John";

            /*retrieving value using foreach loop*/
            foreach(string name in arr)
            {
                Console.WriteLine("Hello "+ name);
            }

            Console.Read();
        }
    }
}
```

input
```
Hello Stevem
Hello Clark
Hello Mark
Hello Thompson
Hello John
```