

**1. Develop a C# .NET Console Application to demonstrate the conditional statements.**

```
using System;
using System.Collections;

namespace ConsoleApplication12
{
    class Program
    {
        static void Main(string[] args)
        {
            int choice, a=0,b=0;
            while(true)
            {
                Console.WriteLine("");
                Console.WriteLine("Demonstration of conditional statements");
                Console.WriteLine("Enter choice");
                Console.WriteLine("1. Simple if");
                Console.WriteLine("2. If else");
                Console.WriteLine("3. If else if");
                Console.WriteLine("Switch: program is implemented using switch");
                Console.WriteLine("4. exit");

                choice = Convert.ToInt32(Console.ReadLine()); ;

                if(choice > 0 && choice <4)
                {
                    Console.WriteLine("Enter two numbers");
                    a = Convert.ToInt32(Console.ReadLine());
                    b = Convert.ToInt32(Console.ReadLine());
                }
                // switch statement
                switch (choice)
```

```
{
case 1:
// simple if
if (a == b)
Console.WriteLine("Both are equal");
break;

case 2:
// if else
if (a == b)
Console.WriteLine("Both are equal");
else
Console.WriteLine("Both are not equal");
break;

case 3:
// if else if
if (a > b)
Console.WriteLine("{0} is greater than {1}", a, b);
else if( a<b)
Console.WriteLine("{0} is less than {1}", a, b);
else
Console.WriteLine("Both {0} and {1} are equal", a, b);
break;

case 4:
goto exit;
break;

default:
Console.WriteLine("Invalid choice");
break;
}
}
```

exit:

```
Console.WriteLine("");
```

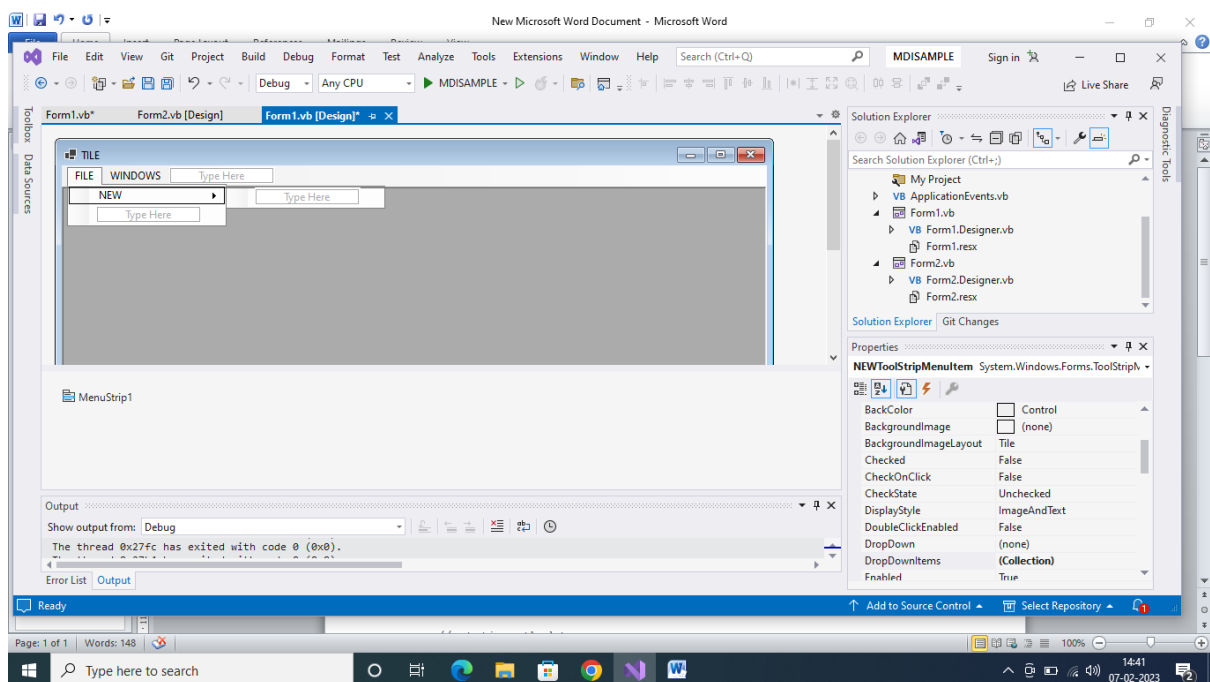
```
}
```

```
}
```

```
}
```

## 2. Demonstrate MDI Application using vb.net

### Form1.vb [design]



### Form1.vb

Public Class Form1

```
Private f2integer As Integer = 0
```

```
Private Sub NEWToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
```

```
NEWToolStripMenuItem.Click
```

```
Dim f2 As New Form2()
```

```
f2.MdiParent = Me
```

```
f2integer = f2integer + 1
```

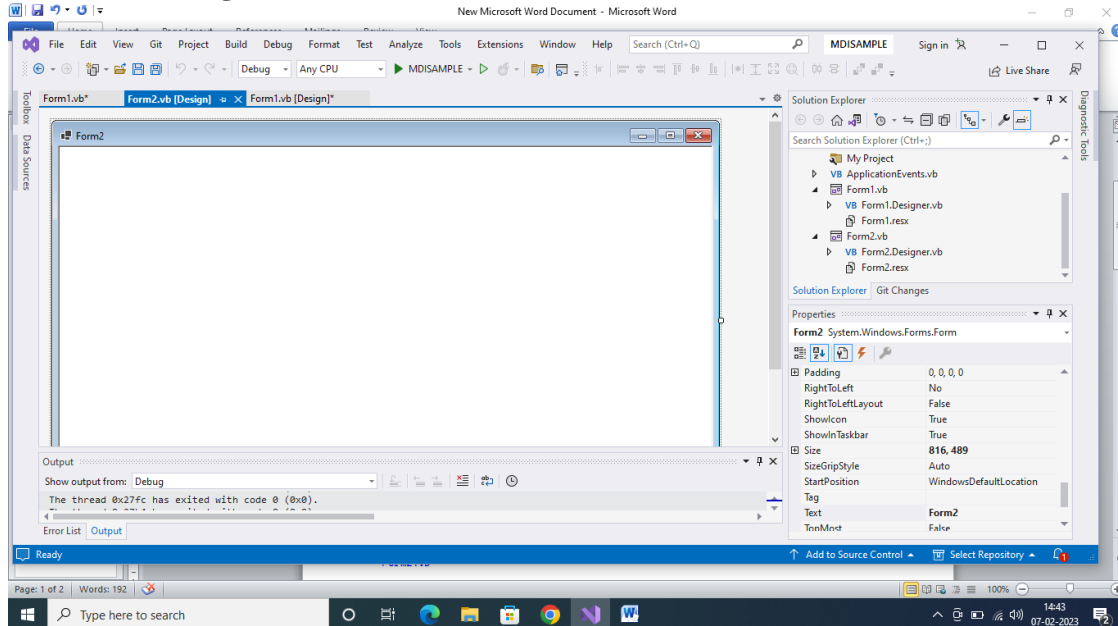
```
f2.Text = "new" & f2integer
```

```
f2.Show()
```

End Sub

End Class

## Form2.vb [Design]



### 3. Demonstrate Multithreading programming in C#.NET

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading;

using System.Threading.Tasks;

namespace ConsoleApp10

{

internal class Program

{

public static void method1()

{

// It prints numbers from 0 to 10

```

for (int I = 0; I <= 10; I++)
{
    Console.WriteLine("Method1 is : {0}", I);

    // When the value of I is equal to 5 then
    // this method sleeps for 6 seconds
    if (I == 5)
    {
        Thread.Sleep(6000);
    }
}

// static method two
public static void method2()
{
    // It prints numbers from 0 to 10
    for (int J = 0; J <= 10; J++)
    {
        Console.WriteLine("Method2 is : {0}", J);
    }
}

// Main Method
static public void Main()
{
    // Creating and initializing threads
    Thread thr1 = new Thread(method1);
    Thread thr2 = new Thread(method2);
    thr1.Start();
    thr2.Start();
}
}

```

