PRACTICAL - 1

AIM: Write the following programs in C#.NET:-

a) Write a program to print "Hello World"

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

namespace ConsoleApplication2
{
    class Program
    {
        static void Main(string[] args)
         {
            Console.WriteLine("hello world");
            Console.ReadKey();
        }
    }
}
```

OUTPUT:

hello world

b) Write a program to reverse a number

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

namespace ConsoleApplication2
{
    class Program
    {
        static void Main(string[] args)}
```

```
{
    Console.WriteLine("Enter a Number");
    int numb = int.Parse(Console.ReadLine());
    int reverse = 0;
    while (numb > 0)
    {
        int rem = numb % 10;
        reverse = (reverse * 10) + rem;
        numb = numb / 10;
    }
    Console.WriteLine("Reverse number={0}", reverse);
    Console.ReadLine();
}
```

Enter a Number

1234

Reverse number=4321

c) Write a program to find the greatest value of the three values

Enter Three no:

10

20

30

The Greatest Of Three numbers are:30

d) Write a program to sort an integer array of 10 elements in ascending using System;

```
class Program
{
    static void Main()
    {
        int[] values = { 4, 7, 2, 0 };
        Array.Sort(values);
        foreach (int value in values)
        {
            Console.Write(value);
            Console.Write(' ');
        }
        Console.WriteLine();
    }
}
```

OUTPUT:

0247

PRACTICAL - 2

a) Write C# code to prompt a user to input his/her name and country name and then the output will be shown as an example below: Hello Ram from country India!

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApplication2
  class Program
    static void Main(string[] args)
      Console.WriteLine("Enter Your Name:");
      String name = Console.ReadLine();
      Console.WriteLine("Enter Your Country:");
      String country = Console.ReadLine();
      Console.WriteLine("Hello " +name + " From " + country + "!");
      Console.ReadKey();
    }
  }
```

OUTPUT:

Enter Your Name:

.NET

Enter Your Country:

INDIA

Hello .NET From INDIA!

a) Write a program in which accept two argument as parameter from the user and returns four output value as add, subtract, multiplication and division.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApplication2
  class Program
    public void Value(int num1, int num2)
       Console.WriteLine("Addition is " + (num1 + num2));
       Console.WriteLine("Subtraction is " + (num1 - num2));
       Console.WriteLine("Multiplication is " + (num1 * num2));
       Console.WriteLine("Division is " + (num1 / num2));
       Console.ReadKey();
    static void Main(string[] args)
       Program obj = new Program();
       obj.Value(10, 20);
    }
  }
}
```

OUTPUT:

Addition is 30

Subtraction is -10

Multiplication is 200

Division is 0

PRACTICAL - 3

AIM: Create console applications to implement following C# concepts.

a) Constructor & Copy Constructor.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApplication2
  class Program
    public Program()
       Console.WriteLine("Default Constructor.");
       Console.WriteLine("Invoke at the time of object creation.");
    public Program(String str)
       Console.WriteLine("Parameterized constructor");
       Console.WriteLine("Hello " + str);
     }
    static void Main(string[] args)
       Program obj = new Program();
       Program obj1 = new Program("mrindia");
       Console.ReadKey();
    }
  }
```

OUTPUT:

Default Constructor.
Invoke at the time of object creation.
Parameterized constructor
Hello mrindia

Copy Constructor.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApplication2
  class Program
    public String str1, str2;
    public Program(String x, String y)
       str1 = x;
       str2 = y;
    public Program(Program obj)
       str1 = obj.str1;
       str2 = obj.str2;
    static void Main(string[] args)
    {
       Program obj = new Program("welcome", " C# .net");
       Program obj1 = new Program(obj);
       Console.WriteLine(obj1.str1 + "To" + obj.str2);
       Console.ReadKey();
  }
}
```

OUTPUT:

welcomeTo C# .net

b) Destructor

using System;

```
class A
public A()
 Console.WriteLine("Creating A");
~A()
{
 Console.WriteLine("Destroying A");
}
class B:A
public B()
 Console.WriteLine("Creating B");
~B()
 Console.WriteLine("Destroying B");
class C:B
public C()
 Console.WriteLine("Creating C");
}
~C()
 Console.WriteLine("Destroying C");
class App
public static void Main()
 C = new C();
 Console.WriteLine("Object Created ");
 Console.WriteLine("Press enter to Destroy it");
 Console.ReadLine();
```

```
c=null;
//GC.Collect();
Console.Read();
}
```

Creating A
Creating B
Creating C
Object Created
Press enter to Destroy it
Destroying C
Destroying B
Destroying A

c) Method Overloading

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

namespace ConsoleApplication2
{
    class Program
    {
        public void add(int a, int b)
        {
            Console.WriteLine("This is method contain two parameter.");
            Console.WriteLine(a + b);
        }
        public void add(int a, int b,int c)
        {
            Console.WriteLine("This is method contain Three parameter.");
            Console.WriteLine("This is method contain Three parameter.");
            Console.WriteLine(a + b+c);
        }
}
```

```
public static void Main()
{
     Console.WriteLine("Example of method overloading");
     Program obj = new Program();
     obj.add(10, 20);
     obj.add(10, 20, 30);
     Console.ReadKey();
    }
}
```

Example of method overloading

This is method contain two parameter.

30

This is method contain Three parameter.

60

d) Properties

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

namespace ConsoleApplication2
{
    class Student
    {
        private string code = "N.A";
        private string name = "not known";
        private int age = 0;

    public string Code
    {
            get
            {
                  return code;
            }
        }
}
```

```
set
     {
       code = value;
   }
public string Name
     get
     {
       return name;
     set
       name = value;
  public int Age
     get
       return age;
     }
     set
       age = value;
  public override string ToString()
     return "Code = " + Code + ", Name = " + Name + ", Age = " + Age;
   }
}
class ExampleDemo
  public static void Main()
    Student s = new Student();
     s.Code = "001";
     s.Name = "Zara";
     s.Age = 9;
     Console.WriteLine("Student Info: {0}", s);
```

```
s.Age += 1;
Console.WriteLine("Student Info: {0}", s);
Console.ReadKey();
}
}
```

```
Student Info: Code = 001, Name = Zara, Age = 9
Student Info: Code = 001, Name = Zara, Age = 10
```

e) Inheritance

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApplication2
  public class variable
    public int a=10;
    public int b=20;
    public int c;
  }
  public class method: variable
    public void add()
       c = a + b;
       Console.WriteLine(c);
     }
  }
```

```
class ExampleDemo
{
    public static void Main()
    {
        method obj = new method();
        obj.add();
        Console.ReadKey();
    }
}
```

30

f) Exception Handling

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

namespace ConsoleApplication2
{
    public class program
    {
        public program()
        {
            int a = 10;
            int b = 0;
            int result = a / b;
        }
        catch (DivideByZeroException e)
        {
            Console.WriteLine("you Can't divide by zero");
        }
    }
}
```

```
class ExampleDemo
{
    public static void Main()
    {
        program obj = new program();
        Console.ReadKey();
    }
}
```

you Can't divide by zero

```
g) Delegates
```

```
using System;
using System.Text;
using System. Threading. Tasks;
delegate int NumberChanger(int n);
namespace ConsoleApplication2
{
  public class program
    static int num = 10;
    public static int AddNum(int p)
       num += p;
       return num;
    public static int MultNum(int q)
       num *= q;
       return num;
    public static int getNum()
             return num;
public static void Main()
     {
```

NumberChanger nc1 = new NumberChanger(AddNum);

```
NumberChanger nc2 = new NumberChanger(MultNum);
nc1(25);
Console.WriteLine("Value of Num: {0}", getNum());
nc2(5);
Console.WriteLine("Value of Num: {0}", getNum());
Console.ReadKey();
}
}
```

Value of Num: 35

Value of Num: 175

h) Indexer

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApplication2
{
       class IndexedNames
     {
       private string[] namelist = new string[size];
       static public int size = 10;
       public IndexedNames()
         for (int i = 0; i < size; i++)
            namelist[i] = "N. A.";
       }
       public string this[int index]
         get
            string tmp;
            if (index \ge 0 \&\& index \le size - 1)
```

```
{
           tmp = namelist[index];
         }
         else
           tmp = "";
         return (tmp);
       }
      set
       {
         if (index \geq= 0 && index \leq= size - 1)
           namelist[index] = value;
    }
    static void Main(string[] args)
      IndexedNames names = new IndexedNames();
      names[0] = "Zara";
      names[1] = "Riz";
      names[2] = "Nuha";
      names[3] = "Asif";
      names[4] = "Davinder";
      names[5] = "Sunil";
      names[6] = "Rubic";
      for (int i = 0; i < IndexedNames.size; i++)
         Console.WriteLine(names[i]);
      Console.ReadKey();
  }
}
```

Zara Riz

Nuha

```
Asif
Davinder
Sunil
Rubic
N. A.
N. A.
```

N.A.

i) Event

```
using System;
namespace SimpleEvent
  using System;
  public class EventTest
     private int value;
     public delegate void NumManipulationHandler();
    public event NumManipulationHandler ChangeNum;
    protected virtual void OnNumChanged()
       if (ChangeNum != null)
       {
         ChangeNum();
       }
       else
         Console.WriteLine("Event fired!");
     }
     public EventTest(int n)
       SetValue(n);
     }
     public void SetValue(int n)
```

```
{
    if (value != n)
    {
       value = n;
      OnNumChanged();
    }
}

public class MainClass
{
    public static void Main()
    {
       EventTest e = new EventTest(5);
       e.SetValue(7);
       e.SetValue(11);
      Console.ReadKey();
    }
}
```

Event fired! Event fired! Event fired!

j) Reflection API

```
using System;

[AttributeUsage(AttributeTargets.All)]
public class HelpAttribute : System.Attribute
{
   public readonly string Url;

   public string Topic // Topic is a named parameter
   {
      get
      {
        return topic;
   }
}
```

```
}
     set
     {
       topic = value;
  }
  public HelpAttribute(string url) // url is a positional parameter
     this.Url = url;
  private string topic;
}
[HelpAttribute("Information on the class MyClass")]
class MyClass
namespace AttributeAppl
  class Program
     static void Main(string[] args)
       System.Reflection.MemberInfo info = typeof(MyClass);
       object[] attributes = info.GetCustomAttributes(true);
       for (int i = 0; i < attributes.Length; i++)
       {
         System.Console.WriteLine(attributes[i]);
       }
       Console.ReadKey();
     }
  }
}
```

ConsoleApplication3.HelpAttribute

PRACTICAL - 4

AIM: Write the following programs in C#.NET:

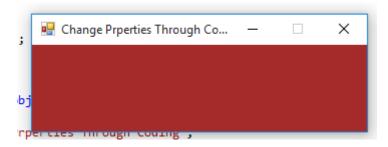
a) Create a window application for basic window form controls that will show the basic property and methods of all that controls.

```
using System;
using System.Drawing;
using System.Windows.Forms;

namespace WindowsFormsApplication4
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            this.Text = "Change Prperties Through Coding";
            this.BackColor = Color.Brown;
            this.Size = new Size(350, 125);
            this.Location = new Point(300, 300);
            this.MaximizeBox = false;
        }
    }
}
```

OUTPUT:



b) Create a calculator using button, label, textbox control in .NET

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApplication9
  public partial class Form1: Form
    string opr;
    double oparand1, oparand2, result;
    // double SqrRoot;
    public Form1()
       InitializeComponent();
    private void btn1_Click(object sender, EventArgs e)
       display.Text = display.Text + "1";
    private void btn2_Click(object sender, EventArgs e)
       display.Text = display.Text + "2";
     }
    private void btn3_Click(object sender, EventArgs e)
    {
       display.Text = display.Text + "3";
     }
    private void btn4_Click(object sender, EventArgs e)
       display.Text = display.Text + "4";
```

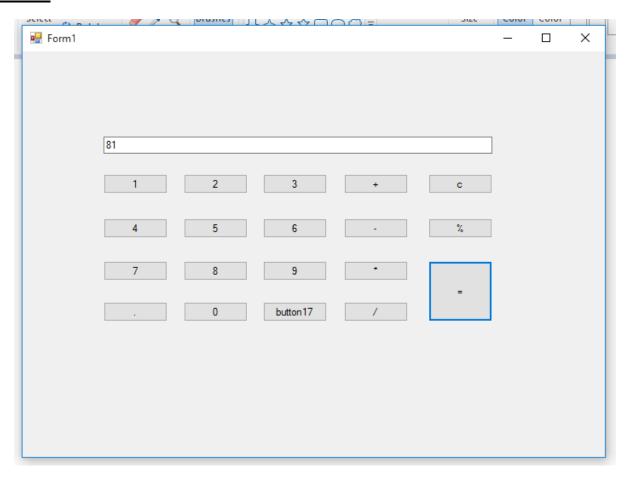
```
private void btn5_Click(object sender, EventArgs e)
  display.Text = display.Text + "5";
private void btn6_Click(object sender, EventArgs e)
  display.Text = display.Text + "6";
private void btn7_Click(object sender, EventArgs e)
  display.Text = display.Text + "7";
}
private void btn8_Click(object sender, EventArgs e)
  display.Text = display.Text + "8";
private void btn9_Click(object sender, EventArgs e)
  display.Text = display.Text + "9";
}
private void btn0_Click(object sender, EventArgs e)
  display.Text = display.Text + "0";
private void btnc_Click(object sender, EventArgs e)
  display.Clear();
private void btnminus_Click(object sender, EventArgs e)
  oparand1 = Convert.ToDouble(display.Text);
  opr = "-";
  display.Clear();
                       }
private void btnmul_Click(object sender, EventArgs e)
  oparand1 = Convert.ToDouble(display.Text);
  opr = "*";
```

```
display.Clear();
    }
    private void btndiv_Click(object sender, EventArgs e)
      oparand1 = Convert.ToDouble(display.Text);
      opr = "/";
      display.Clear();
    }
    private void btnprod_Click(object sender, EventArgs e)
      oparand1 = Convert.ToDouble(display.Text);
      opr = "%";
display.Clear();
    }
    private void btndot_Click(object sender, EventArgs e)
      if (display.Text.Contains("."))
         display.Text = display.Text;
      else
         display.Text = display.Text + ".";
    }
    private void btnplusorminus_Click(object sender, EventArgs e)
      if (display.Text.Contains("-"))
         display.Text = display.Text.Remove(0, 1);
      else
         display.Text = "-" + display.Text;
             }
    private void btnequals_Click(object sender, EventArgs e)
      oparand2 = Convert.ToDouble(display.Text);
```

```
switch (opr)
  {
    case "+":
       result = oparand1 + oparand2;
       display.Text = Convert.ToString(result);
       break;
    case "-":
       result = oparand1 - oparand2;
       display.Text = Convert.ToString(result);
       break;
    case "*":
       result = oparand1 * oparand2;
       display.Text = Convert.ToString(result);
       break;
    case "/":
       if (oparand2 == 0)
         display.Text = "0.0";
         break;
       }
       else
         result = oparand1 / oparand2;
         display.Text = Convert.ToString(result);
         break;
       }
    case "%":
       result = oparand1 % oparand2;
       display.Text = Convert.ToString(result);
       break;
  }
           }
private void btnplus_Click(object sender, EventArgs e)
  oparand1 = Convert.ToDouble(display.Text);
  opr = "+";
  display.Clear();
                      }
private void Form1_Load(object sender, EventArgs e)
```

{

```
}
}
```



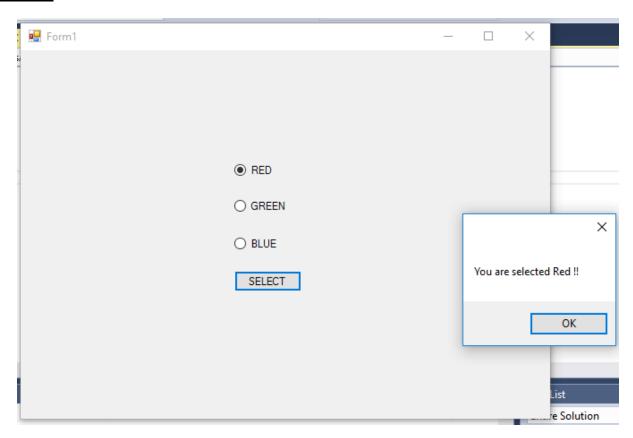
PRACTICAL - 5

a) Write a program to demonstrate use of radio button, checkbox, list box, combo box and list view

Radio Button

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApplication7
  public partial class Form1 : Form
    public Form1()
      InitializeComponent();
     }
    private void Form1_Load(object sender, EventArgs e)
    {
      radioButton1.Checked = true;
    private void button1_Click(object sender, EventArgs e)
      if (radioButton1.Checked == true)
       {
         MessageBox.Show("You are selected Red!!");
         return;
      else if (radioButton2.Checked == true)
         MessageBox.Show("You are selected Blue!!");
         return;
       }
      else
         MessageBox.Show("You are selected Green!!");
```

```
return;
}
}
}
```



CheckBox Control

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
```

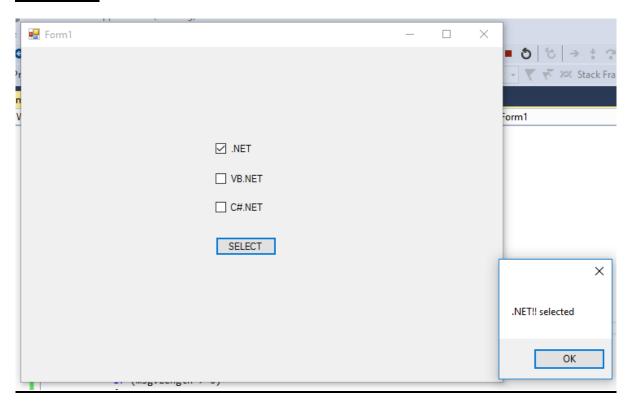
namespace WindowsFormsApplication7

{

```
public partial class Form1: Form
  public Form1()
    InitializeComponent();
  private void Form1_Load(object sender, EventArgs e)
  }
  private void button1_Click(object sender, EventArgs e)
    string msg = "";
    if (checkBox1.Checked == true)
    {
      msg = " .NET!!";
    if (checkBox2.Checked == true)
      msg = msg + "VB.NET !!";
    if (checkBox3.Checked == true)
      msg = msg + " C#NET !!";
    if (msg.Length > 0)
      MessageBox.Show(msg + " selected ");
    }
    else
    {
      MessageBox.Show("No checkbox selected");
    }
    checkBox1.ThreeState = true;
  }
```

}

OUTPUT:



ComboBox Control

using System;

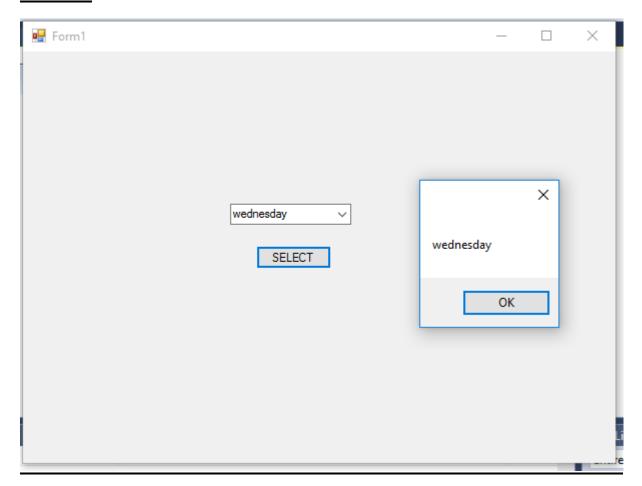
using System.Collections.Generic; using System.ComponentModel; using System.Data; using System.Drawing; using System.Linq;

using System.Text;

using System. Threading. Tasks;

using System. Windows. Forms;

```
namespace WindowsFormsApplication7
  public partial class Form1: Form
    public Form1()
      InitializeComponent();
    }
    private void Form1_Load(object sender, EventArgs e)
      comboBox1.Items.Add("Sunday");
      comboBox1.Items.Add("Monday");
      comboBox1.Items.Add("Tuesday");
      comboBox1.Items.Add("wednesday");
      comboBox1.Items.Add("Thursday");
      comboBox1.Items.Add("Friday");
      comboBox1.Items.Add("Saturday");
      comboBox1.SelectedIndex = comboBox1.FindStringExact("Sunday");
    }
    private void button1_Click(object sender, EventArgs e)
    {
      string var;
      var = comboBox1.Text;
      MessageBox.Show(var);
    }
}
```

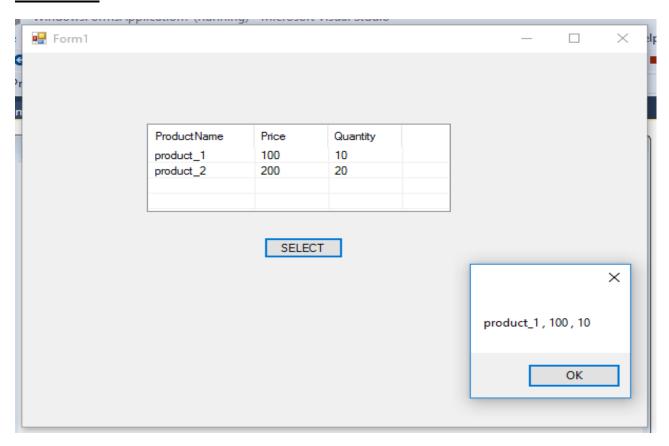


ListView Control

```
public Form1()
  InitializeComponent();
private void Form1_Load(object sender, EventArgs e)
  listView1.View = View.Details;
  listView1.GridLines = true;
  listView1.FullRowSelect = true;
  //Add column header
  listView1.Columns.Add("ProductName", 100);
  listView1.Columns.Add("Price", 70);
  listView1.Columns.Add("Quantity", 70);
  //Add items in the listview
  string[] arr = new string[4];
  ListViewItem itm;
  //Add first item
  arr[0] = "product_1";
  arr[1] = "100";
  arr[2] = "10";
  itm = new ListViewItem(arr);
  listView1.Items.Add(itm);
  //Add second item
  arr[0] = "product_2";
  arr[1] = "200";
  arr[2] = "20";
  itm = new ListViewItem(arr);
  listView1.Items.Add(itm);
}
private void button1_Click(object sender, EventArgs e)
  string productName = null;
  string price = null;
  string quantity = null;
  productName = listView1.SelectedItems[0].SubItems[0].Text;
  price = listView1.SelectedItems[0].SubItems[1].Text;
```

```
quantity = listView1.SelectedItems[0].SubItems[2].Text;

MessageBox.Show(productName + " , " + price + " , " + quantity);
}
}
```



b) Write a program to demonstrate use of inheritance of a form in another form

form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
```

using System. Threading. Tasks;

```
using System.Windows.Forms;

namespace WindowsFormsApplication10
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
        private void button1_Click(object sender, EventArgs e)
        {
            MessageBox.Show("base form is show");
        }
        private void Form1_Load(object sender, EventArgs e)
        {
            }
        }
    }
}
```

form2.cs

```
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

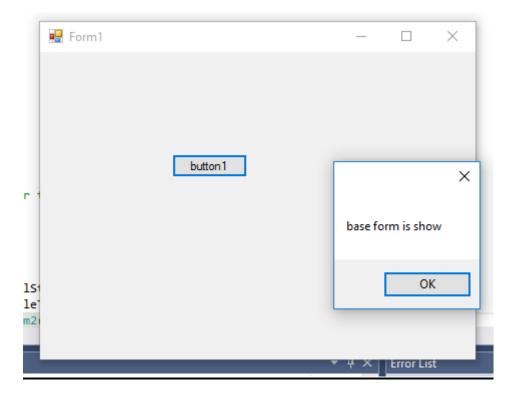
namespace WindowsFormsApplication10
{
    public partial class Form2 : WindowsFormsApplication10.Form1
    {
        public Form2()
        {
            InitializeComponent();
        }
}
```

```
private void button1_Click_1(object sender, EventArgs e)
{
    MessageBox.Show("subform form is show");
}
}
```

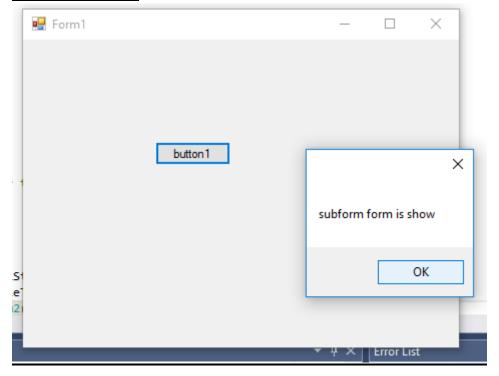
program.cs

BASE FORM

```
using System;
using System.Collections.Generic;
using System.Linq;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApplication10
  static class Program
    /// <summary>
    /// The main entry point for the application.
    /// </summary>
    [STAThread]
    static void Main()
    {
      Application.EnableVisualStyles();
      Application.SetCompatibleTextRenderingDefault(false);
      Application.Run(new Form2());
    }
  }
OUTPUT:
```



DERIVED FORM



c) Write a program to demonstrate use of MDI form

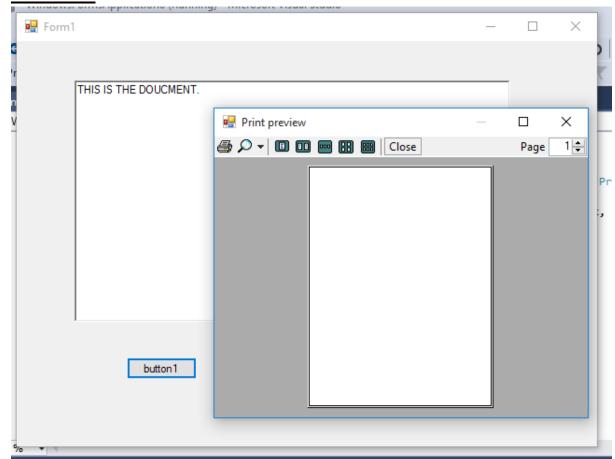
```
using System;
using System.Drawing;
using System.Windows.Forms;

namespace WindowsFormsApplication1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
        private void menu1ToolStripMenuItem_Click(object sender, EventArgs e)
        {
            MessageBox.Show("You are selected MenuItem_1");
        }
    }
}
```

d) Write a program to demonstrate use of print dialog (print document, print preview control and print setup)

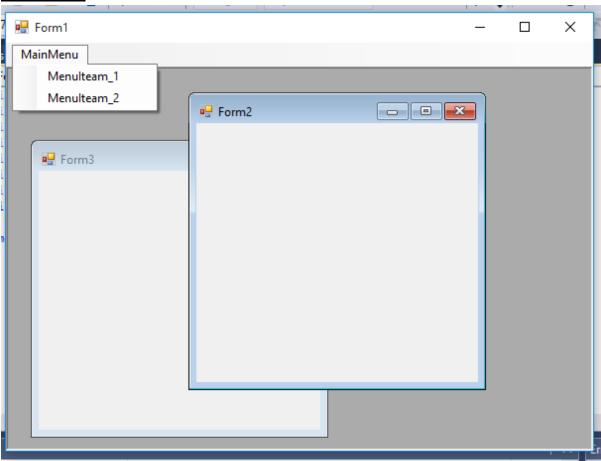
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApplication8
  public partial class Form1: Form
    public Form1()
       InitializeComponent();
    private void printDocument1 PrintPage(object sender,
System.Drawing.Printing.PrintPageEventArgs e)
    {
      e. Graphics. Draw String (rich Text Box 1. Text, rich Text Box 1. Font, \\
Brushes.Black, 100, 20);
      e.Graphics.PageUnit = GraphicsUnit.Inch;
     }
    private void button1_Click_1(object sender, EventArgs e)
      printPreviewDialog1.Document = printDocument1;
      // Show PrintPreview Dialog
      printPreviewDialog();
     }
    private void button2_Click(object sender, EventArgs e)
      //PrintDialog associate with PrintDocument;
      printDialog1.Document = printDocument1;
      if (printDialog1.ShowDialog() == DialogResult.OK)
```

```
printDocument1.Print();
}
}
```



e) Create Menu Strip in Window form Application

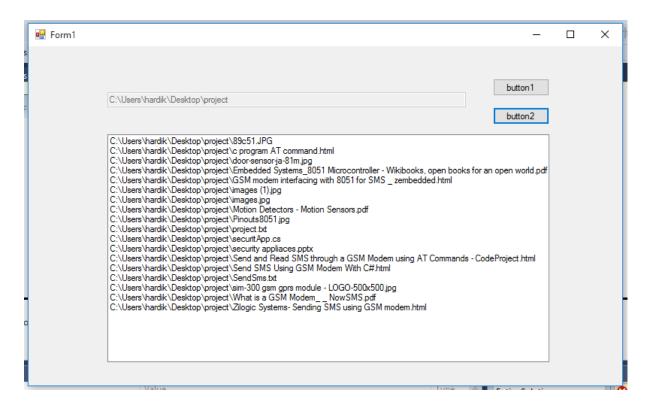
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System.Windows.Forms;
namespace WindowsFormsApplication7
  public partial class Form1: Form
    public Form1()
    {
       InitializeComponent();
     }
    private void Form1_Load(object sender, EventArgs e)
       IsMdiContainer = true;
     }
    private void menuStripToolStripMenuItem_Click(object sender, EventArgs e)
    {
       Form2 frm2 = new Form2();
       frm2.Show();
       frm2.MdiParent = this;
     }
    private void menuIteam2ToolStripMenuItem_Click(object sender, EventArgs e)
    {
       Form3 \text{ frm} 3 = \text{new Form} 3();
       frm3.Show();
       frm3.MdiParent = this;
    }
  }
}
```



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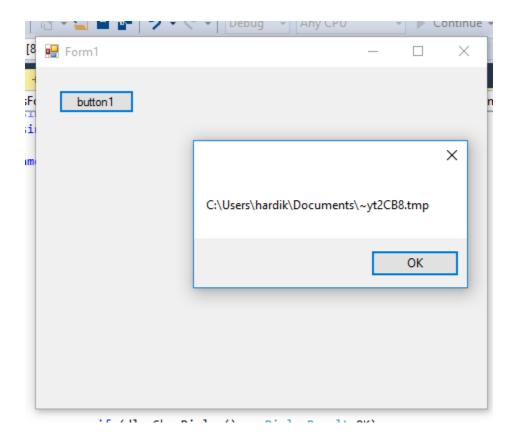
a) FolderBrowserDialog

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApplication12
{
  public partial class Form1: Form
    public Form1()
    {
      InitializeComponent();
    private void Form1_Load(object sender, EventArgs e)
     }
    private void button1_Click(object sender, EventArgs e)
      FolderBrowserDialog folderBrowserDlg = new FolderBrowserDialog();
      // A new folder button will display in FolderBrowserDialog.
      folderBrowserDlg.ShowNewFolderButton = true;
      //Show FolderBrowserDialog
      DialogResult dlgResult = folderBrowserDlg.ShowDialog();
      if (dlgResult.Equals(DialogResult.OK))
       {
         //Show selected folder path in textbox 1.
         textBox1.Text = folderBrowserDlg.SelectedPath;
         //Browsing start from root folder.
         Environment.SpecialFolder rootFolder = folderBrowserDlg.RootFolder;
       }
     }
```



b) OpenFileDialog

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApplication11
  public partial class Form1: Form
    public Form1()
      InitializeComponent();
    private void button1_Click(object sender, EventArgs e)
      OpenFileDialog dlg = new OpenFileDialog();
      dlg.ShowDialog();
      if (dlg.ShowDialog() == DialogResult.OK)
       {
         string fileName;
         fileName = dlg.FileName;
         MessageBox.Show(fileName);
       }
  }
```



c) ColorDialog

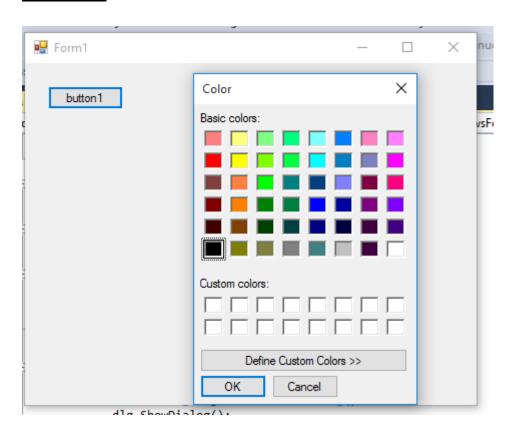
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication11
{
    public partial class Form1 : Form
    {
        public Form1()
```

```
{
    InitializeComponent();
}

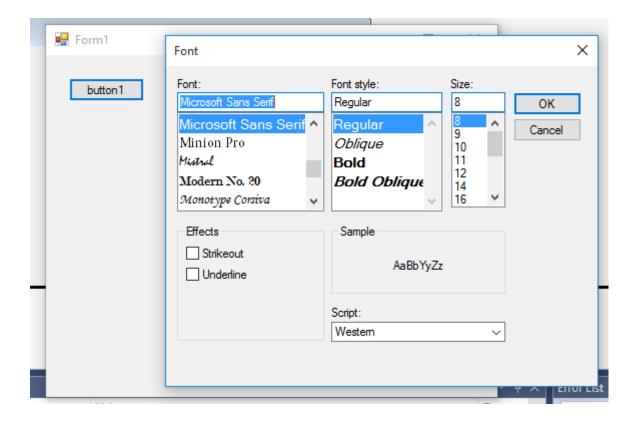
private void button1_Click(object sender, EventArgs e)
{
    ColorDialog dlg = new ColorDialog();
    dlg.ShowDialog();

if (dlg.ShowDialog() == DialogResult.OK)
    {
        string str = null;
        str = dlg.Color.Name;
        MessageBox.Show(str);
    }
}
```



d) FontDilalog

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApplication11
  public partial class Form1: Form
    public Form1()
      InitializeComponent();
    private void button1_Click(object sender, EventArgs e)
      FontDialog dlg = new FontDialog();
      dlg.ShowDialog();
      if (dlg.ShowDialog() == DialogResult.OK)
         string fontName;
         float fontSize;
         fontName = dlg.Font.Name;
         fontSize = dlg.Font.Size;
         MessageBox.Show(fontName + " " + fontSize);
  }
```



e) SaveFileDialog Control

```
}
    private void Form1_Load(object sender, EventArgs e)
     }
    private void button1_Click(object sender, EventArgs e)
         saveFileDialog1.Filter = "Text File|.txt";
       saveFileDialog1.FileName = String.Empty;
       saveFileDialog1.DefaultExt = ".txt";
     DialogResult result = saveFileDialog1.ShowDialog();
         if (result == DialogResult.OK)
       {
         //Create a file stream using the file name
         FileStream fs = new FileStream(saveFileDialog1.FileName,
FileMode.Create);
           StreamWriter writer = new StreamWriter(fs);
            writer.Write(textBox1.Text);
            writer.Close();
  }
```

