Name Laksh Kumar
CMS-ID 023-18-0006

LAB 08

Activity 1

```csharp
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 dsapp
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            DataSet dataSet = new DataSet();
            DataTable tableUsername = new DataTable();
            tableUsername.TableName = "username";

            DataColumn tableUsernameFirstColumn = new DataColumn();
            tableUsernameFirstColumn.ColumnName = "Id";
            tableUsernameFirstColumn.DataType = Type.GetType("System.Int32");


            DataColumn tableUsernameSecondColumn = new DataColumn();
            tableUsernameSecondColumn.ColumnName = "username";
            tableUsernameSecondColumn.DataType = Type.GetType("System.String");


            DataColumn tableUsernamethirdtColumn = new DataColumn();
            tableUsernamethirdtColumn.ColumnName = "password";
            tableUsernamethirdtColumn.DataType = Type.GetType("System.String");

            tableUsername.Columns.Add(tableUsernameFirstColumn);
            tableUsername.Columns.Add(tableUsernameSecondColumn);
            tableUsername.Columns.Add(tableUsernamethirdtColumn);

            DataRow dr1 = tableUsername.NewRow();
            dr1[0] = 1;
            dr1[1] = "new user";
            dr1[2] = "new password";

            tableUsername.Rows.Add(dr1);
            dataSet.Tables.Add(tableUsername);
            this.dataGridView1.DataSource = dataSet.Tables["username"];
        }
    }
}
```

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}

Output

Form1

	Id	username	password	
▶	1	new user	new password	
＊				

Activity 02

```csharp
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 frmShortCut
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            Button notepad = new Button();
            Button paint = new Button();
            Button powerPoint = new Button();

            // Set Button properties
            notepad.Location = new Point(15, 100);
```

```csharp
            notepad.Height = 40;
            notepad.Width = 220;

            paint.Location = new Point(15, 150);
            paint.Height = 40;
            paint.Width = 220;

            powerPoint.Location = new Point(15, 200);
            powerPoint.Height = 40;
            powerPoint.Width = 220;


            notepad.Text = "Notepad";
            notepad.Name = "notepad";
            notepad.Font = new Font("Georgia", 16);

            paint.Text = "Paint";
            paint.Name = "paint";
            paint.Font = new Font("Georgia", 16);

            powerPoint.Text = "Power Point";
            powerPoint.Name = "powerpoint";
            powerPoint.Font = new Font("Georgia", 16);



            Controls.Add(notepad);
            Controls.Add(paint);
            Controls.Add(powerPoint);

            notepad.Click += new EventHandler(notepad_click);
            paint.Click += new EventHandler(paint_click);
            powerPoint.Click += new EventHandler(powerpoint_click);
            void notepad_click (object sender, EventArgs e)
            {
                System.Diagnostics.Process.Start("notepad.exe");
            }
            void paint_click(object sender, EventArgs e)
            {
                System.Diagnostics.Process.Start("mspaint.exe");
            }
            void powerpoint_click(object sender, EventArgs e)
            {
                System.Diagnostics.Process.Start("powerpnt.exe");
            }
        }
    }
}
```
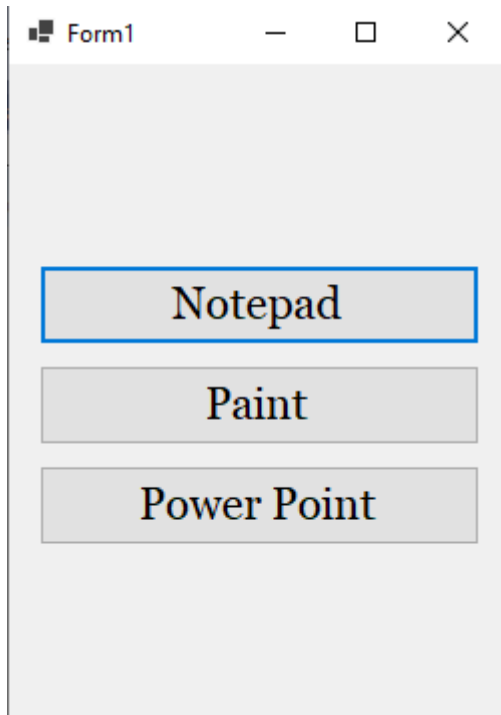
Output

Activty 2

```csharp
using System;
using System.Linq;
namespace LINQ
{
    class Program
    {
        static void Main(string[] args)
        {
            person[] pArray = new person[3];
            pArray[0] = new person { name = "john", age = 22, city = "US"};
            pArray[1] = new person { name = "frdia", age = 32, city = "Dubai" };
            pArray[2] = new person { name = "stephen", age = 42, city = "AUS" };

            staff[] sArray = new staff[3];
            sArray[0] = new staff { name = "carlo", age = 22, city = "US" };
            sArray[1] = new staff { name = "andy", age = 32, city = "Dubai" };
            sArray[2] = new staff { name = "max", age = 42, city = "ABU DABI" };


            var innerJoinQuery =
                from per in pArray
                join sta in sArray on per.city equals sta.city
                select new { personName = per.name, staffName = sta.name };


            foreach (var person in innerJoinQuery)
            {


                Console.WriteLine("person Name :" + person.personName + "   Staff Name :
" + person.staffName);
```

```csharp
            }

        }
    }
    public class person{
        public String name;
         public int age;
        public string city;
}
    public class staff
    {
        public String name;
        public int age;
        public string city;
    }
}
```

Activity 3

```csharp
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 MDIApp
{
    public partial class Form1 : Form
    {
        Form2 form2;
        Form3 form3;
        public Form1()
        {
            InitializeComponent();
            form2 = new Form2();
            form3 = new Form3();
        }

        private void menuStrip1_ItemClicked(object sender, ToolStripItemClickedEventArgs e)
        {

        }


        private void Form1_Load(object sender, EventArgs e)
        {
            showForm2.Click += new EventHandler(show2);
            void show2(object sender, EventArgs e)
            {
                form2.Show();
            }
```
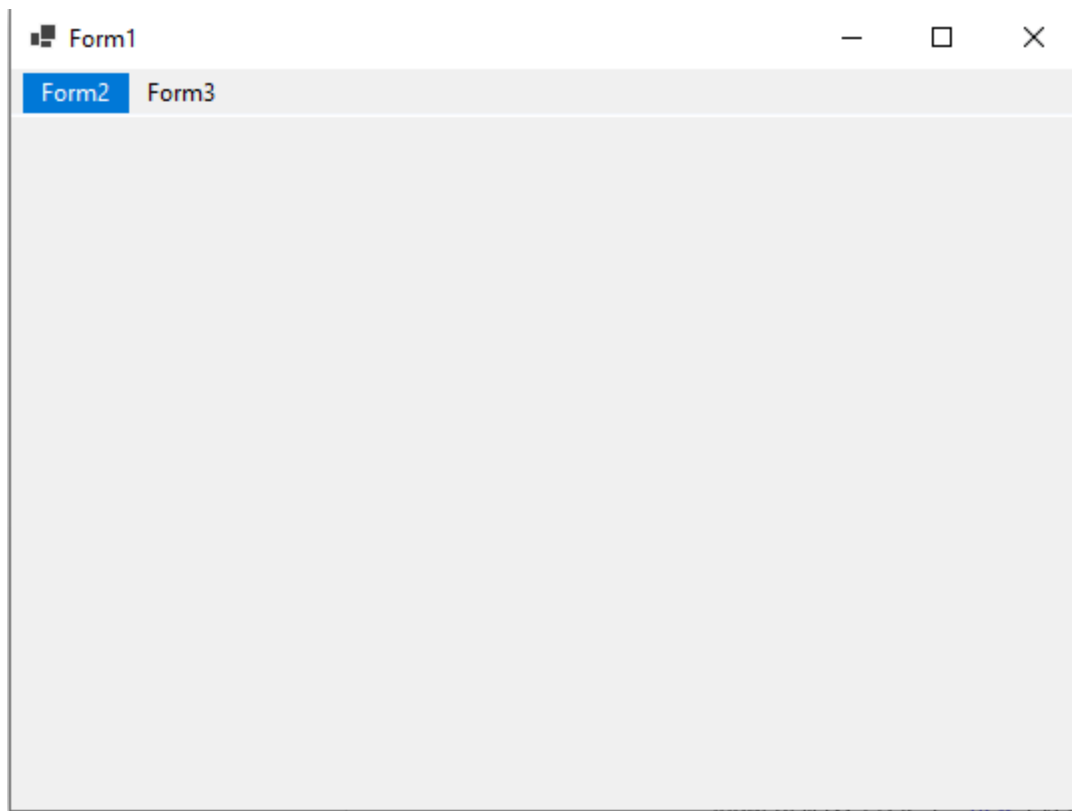
```csharp
            hideForm2.Click += new EventHandler(hide2);
            void hide2(object sender, EventArgs e)
            {
                form2.Hide();
            }
            showForm3.Click += new EventHandler(show3);
            void show3(object sender, EventArgs e)
            {
                form3.Show();
            }
            hideForm3.Click += new EventHandler(hide3);
            void hide3(object sender, EventArgs e)
            {
                form3.Hide();
            }
        }
    }
}
```
Output

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