. N E T P R O G R A M M I N G (E P A M)

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Lab11: Windows Forms

IN-LAB:

1) Develop windows forms application for the following requirements: i) Form contains one ComboBox which contains the items like circle, ellipse and triangle. So Design the logic to change the shape of the form based on user selection in the combobox. ii) Design the logic to display all the font names in a ListBox. Then show the preview in a label when font is selected.

Solution:

```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Drawing.Drawing2D;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace lab11
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
        {
            if (comboBox1.SelectedItem.ToString() == "Circle")
            {
                // Change the form to a circle shape with a red fill color
                this.BackColor = Color.White;
                this.ClientSize = new Size(300, 300);
                this.FormBorderStyle = FormBorderStyle.None;
                GraphicsPath path = new GraphicsPath();
                path.AddEllipse(new Rectangle(0, 0, 300, 300));
                this.Region = new Region(path);
                this.BackColor = Color.Red;
            }
            else if (comboBox1.SelectedItem.ToString() == "Ellipse")
            {
                // Change the form to an ellipse shape with a blue fill color
                this.BackColor = Color.White;
                this.ClientSize = new Size(400, 300);
                this.FormBorderStyle = FormBorderStyle.None;
                GraphicsPath path = new GraphicsPath();
                path.AddEllipse(new Rectangle(0, 0, 400, 300));
                this.Region = new Region(path);
```

```csharp
            this.BackColor = Color.Blue;
        }
        else if (comboBox1.SelectedItem.ToString() == "Triangle")
        {
            // Change the form to a triangle shape with a green fill color
            this.BackColor = Color.White;
            this.ClientSize = new Size(300, 300);
            this.FormBorderStyle = FormBorderStyle.None;
            GraphicsPath path = new GraphicsPath();
            path.AddPolygon(new Point[] { new Point(150, 0), new Point(0, 300), new
Point(300, 300) });
            this.Region = new Region(path);
            this.BackColor = Color.Green;
        }
    }


    }
}
```

Ouputs:

Screenshot showing two Visual Studio windows with the following C# code:

```csharp
            {
                // Change the form to an ellipse shape with a blue fill color
                this.BackColor = Color.White;
                this.ClientSize = new Size(400, 300);
                this.FormBorderStyle = FormBorderStyle.None;
                GraphicsPath path = new GraphicsPath();
                path.AddEllipse(new Rectangle(0, 0, 400, 300));
                this.Region = new Region(path);
                this.BackColor = Color.Blue;
            }
            else if (comboBox1.SelectedItem.ToString() == "Triangle")
            {
                // Change the form to a triangle shape with a green fill color
                this.BackColor = Color.White;
                this.ClientSize = new Size(300, 300);
                this.FormBorderStyle = FormBorderStyle.None;
                GraphicsPath path = new GraphicsPath();
                path.AddPolygon(new Point[] { new Point(150, 0), new Point(0, 300), new Poi
                this.Region = new Region(path);
                this.BackColor = Color.Green;
            }
        }
    }
}
```