

Form1.cs

```
using System;
using System.Drawing;
using System.Drawing.Drawing2D;
using System.Windows.Forms;
namespace lab1
{
    public partial class Form1 : Form
    {
        private bool dragging = false;
        private Point dragCursorPoint;
        private Point dragFormPoint;

        public Form1()
        {
            InitializeComponent();
            this.ClientSize = new Size(400, 400);
            this.Text = "Оранжевый круг";
            SetFormToCircle();
            this.Paint += new PaintEventHandler(MainForm_Paint);
            this.MouseDown += new MouseEventHandler(Form1_MouseDown);
            this.MouseMove += new MouseEventHandler(Form1_MouseMove);
            this.MouseUp += new MouseEventHandler(Form1_MouseUp);
            button.Location = new Point(200 - button.Width/2, 200 -
button.Height/2);
        }
        private void Form1_MouseDown(object sender, MouseEventArgs e)
        {
            if (e.Button == MouseButtons.Left)
            {
                dragging = true;
                dragCursorPoint = Cursor.Position;
                dragFormPoint = this.Location;
            }
        }
        private void Form1_MouseMove(object sender, MouseEventArgs e)
        {
            if (dragging)
            {
                Point dif = Point.Subtract(Cursor.Position, new
Size(dragCursorPoint));
                this.Location = Point.Add(dragFormPoint, new Size(dif));
            }
        }
        private void Form1_MouseUp(object sender, MouseEventArgs e)
        {
            if (e.Button == MouseButtons.Left)
            {
                dragging = false;
            }
        }
        private void SetFormToCircle()
        {
            GraphicsPath path = new GraphicsPath();
            path.AddEllipse(0, 0, ClientSize.Width, ClientSize.Height);
            this.Region = new Region(path);
        }
        private void MainForm_Paint(object sender, PaintEventArgs e)
        {
            Graphics g = e.Graphics;
            Brush brush = Brushes.Orange;
            int diameter = Math.Max(ClientSize.Width, ClientSize.Height);
            g.FillEllipse(brush, -1, -1, diameter + 2, diameter + 2);
        }
    }
}
```

```

        private void button_Click(object sender, EventArgs e)
        {
            Form2 form2 = new Form2();
            this.Hide();
            form2.Show();
        }
    }
}

```

Form2.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 labal
{
    public partial class Form2 : Form
    {
        public Form2()
        {
            InitializeComponent();
            this.ClientSize = new Size(400, 400);
            this.Text = "Зеленый квадрат";
            button.Location = new Point(200 - button.Width / 2, 200 - button.Height
/ 2);
        }

        private void Form2_Load(object sender, EventArgs e)
        {
        }

        private void button_Click(object sender, EventArgs e)
        {
            Form1 form1 = new Form1();
            this.Hide();
            form1.Show();
        }
    }
}

```

Результат

