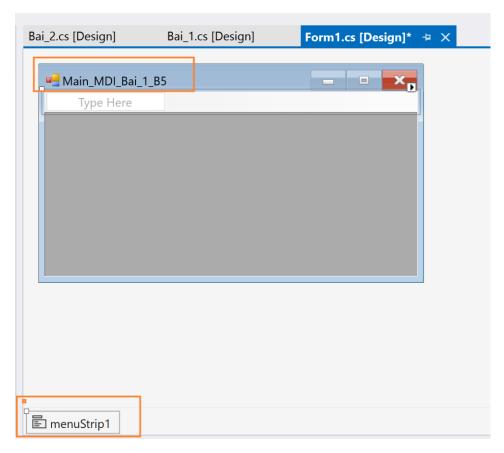
Bài 1: Sử dụng Multiple-Document Interface (MDI) in Windows Forms

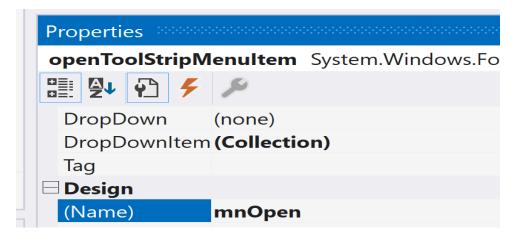
B1: Tạo form cha: IsMdiContainer:True

B2: add 2 form: Bai_1.cs, Bai_2.cs, Bai_3.cs

B3 : Chọn menutrip, kéo vào gõ Open

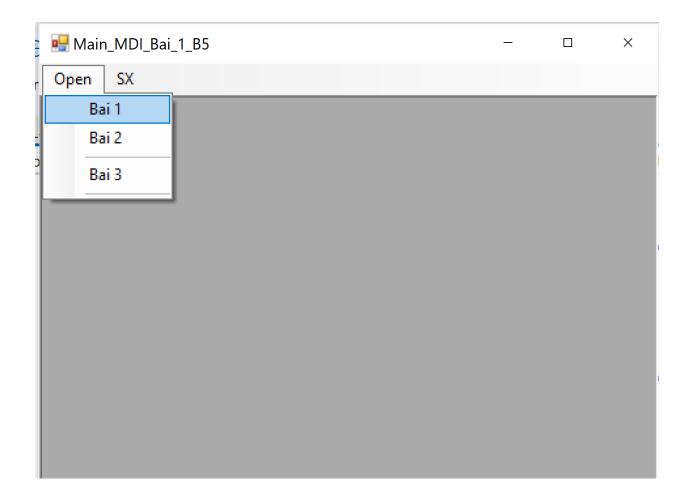


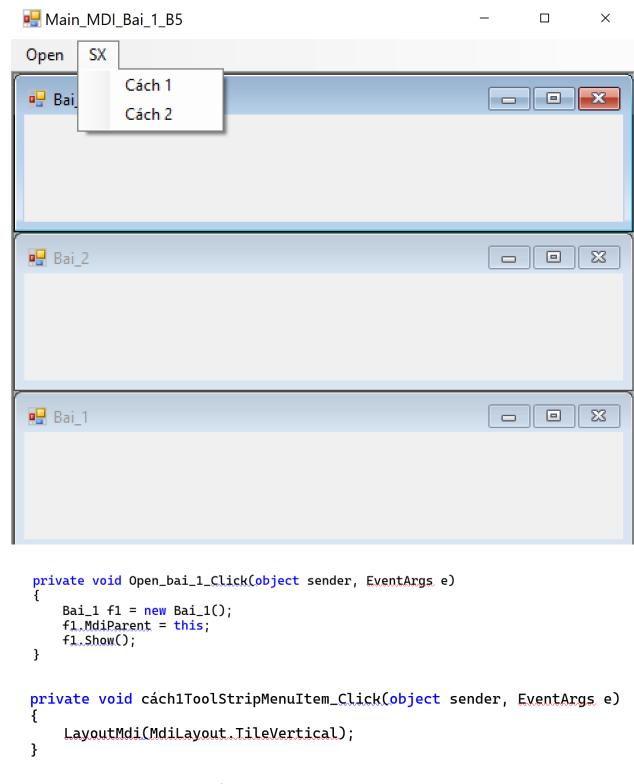
Type Here gõ Open: Bai_1, Bai 2, Gõ - : để phân cách menu (đường kẽ)





B4: Double click Bai 1, gọi



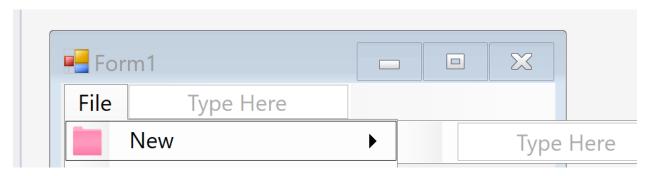


Bài 2: Tạo menu, phím tắt, contextmenu

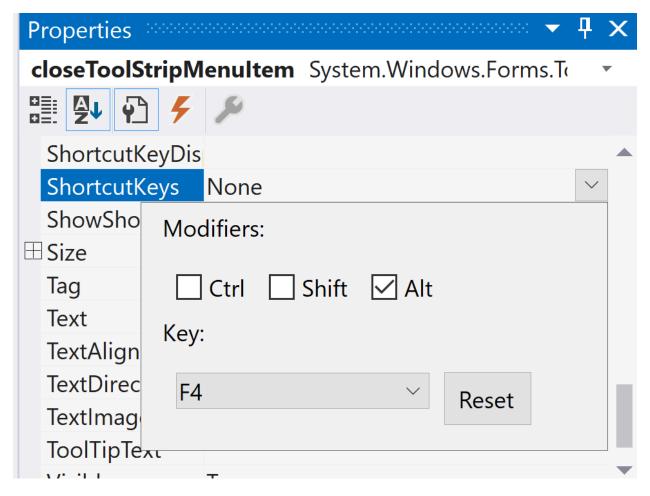
B1: menustrip như bài 1

B2: thêm icon phía trước new

Click open

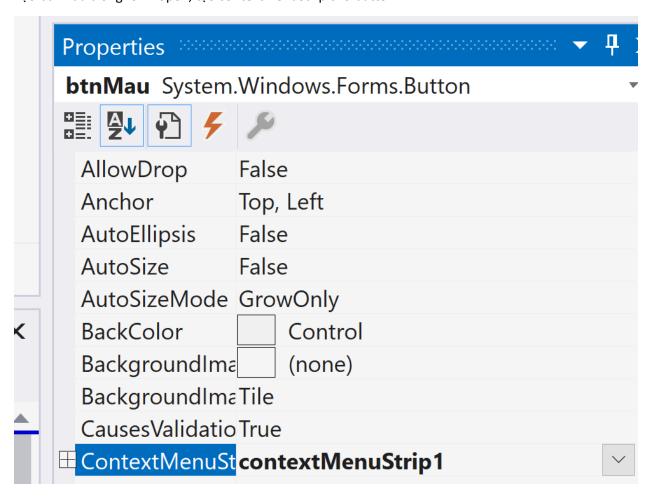


B3: tạo các phím gõ tắt vào menu close

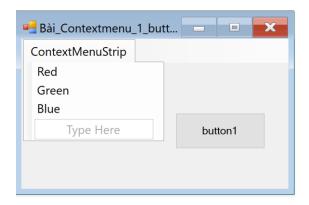




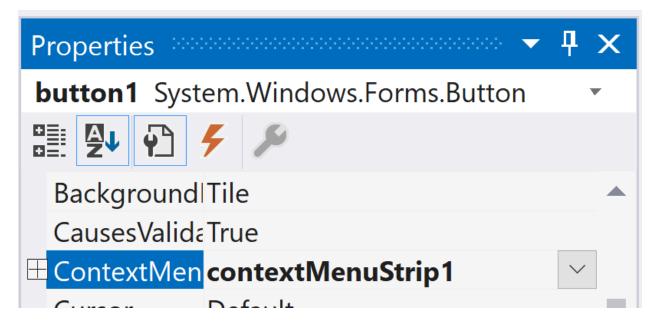
Tạo btnMau trong form open, tạo contextmenuStrip cho button



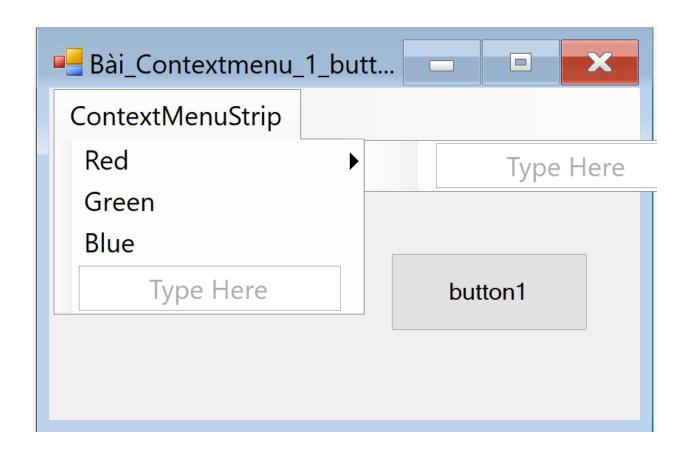
Bài contextmenu, 1 button



Chon button1, properties



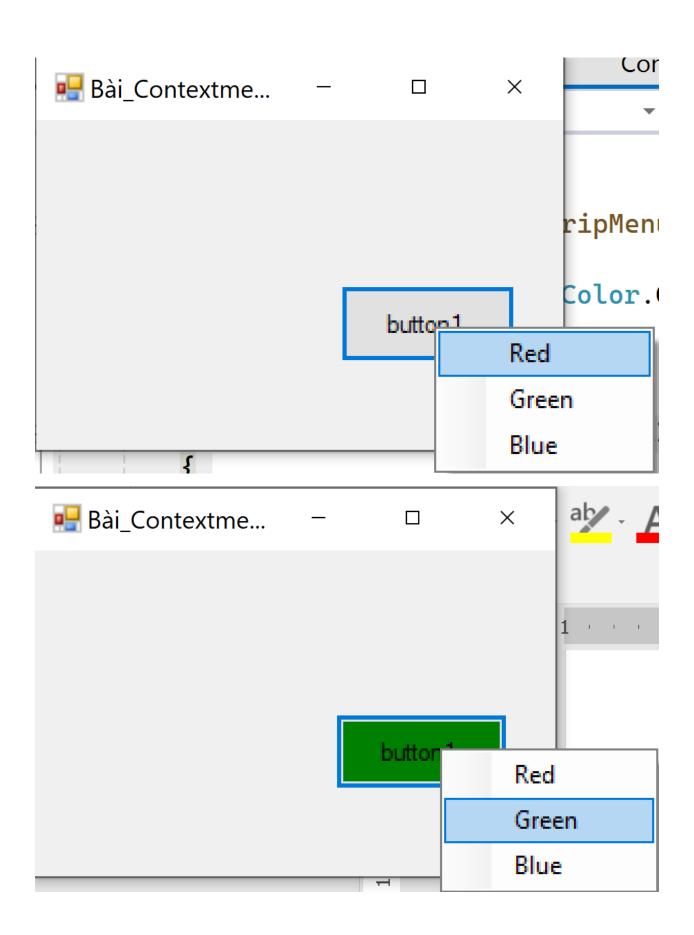
Double lên contextmenu Green



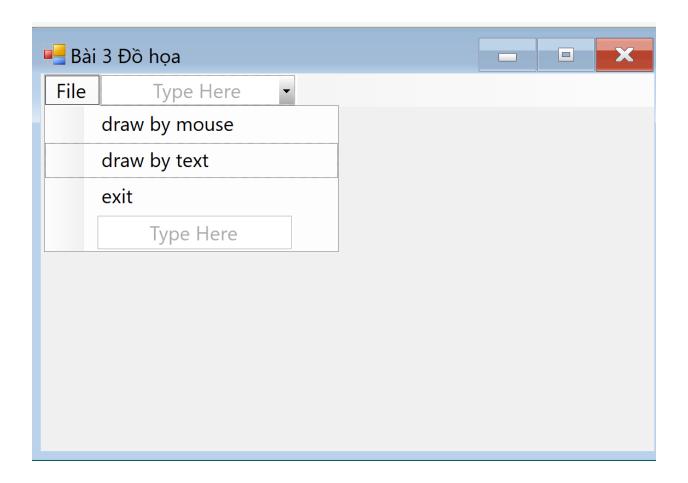
```
private void greenToolStripMenuItem_Click(object sender, EventArgs e)
{
    button1.BackColor = Color.Green;
}

private void greenToolStripMenuItem_Click(object sender, EventArgs e)
{
    button1.BackColor = Color.Green;
}

//tuơng tự cho contextmenu Blue
private void blueToolStripMenuItem_Click(object sender, EventArgs e)
{
    button1.BackColor = Color.Blue;
}
Chạy kết quả:
```



Bài 3: đồ họa



Solution Explorer



















Search Solution Explorer (Ctrl+;)

- Properties
- ₽₽ References
 - App.config
- DrawbyText.cs
- DrawMouse.cs
- Form1.cs
 - Form1.Designer.cs
 - Form1.resx
- C# Program.cs

```
private void DrawbyText_Paint(object sender, PaintEventArgs e)
     Graphics g = e.Graphics;
     string chuoi = "Hello";
     //Co
     //co có hiệu ứng nền
     HatchBrush hatchBr = new HatchBrush(HatchStyle.DashedHorizontal, Color.Yellow, Color.Red);
     //co pha trộn giữa hai màu
     LinearGradientBrush linerGB = new LinearGradientBrush(new Rectangle(10, 10, 10),
         Color.Blue, Color.Yellow, LinearGradientMode.BackwardDiagonal);
     //g.DrawString(chuoi, new Font("Arial", 40), hatchBr, new Point(0, 0));
     //tren
     Font f = new Font("Arial", 40, FontStyle.Bold);
     StringFormat fo = new StringFormat();
     fo.Alignment = StringAlignment.Far;//canh le phải
     g.DrawString(chuoi, new Font("Arial", 40), Brushes.Green, ClientRectangle, fo);
This PC > New Volume (D:) > LTGD > c8_dohoa > c8_dohoa > bin > Debug > Anh
   ×
                anh 3
  //dưới
```

Image img = Image.FromFile(Application.StartupPath + @"\Anh\anh_3.jpg");

g.DrawString(chuoi, new Font("Arial", 40), textB, ClientRectangle, fo);

//co nề là đối tượng ảnh

TextureBrush textB = new TextureBrush(img);

fo.Alignment = StringAlignment.Near;//canh lề phải fo.LineAlignment = StringAlignment.Far;//canh lề dưới



Draw by mouse

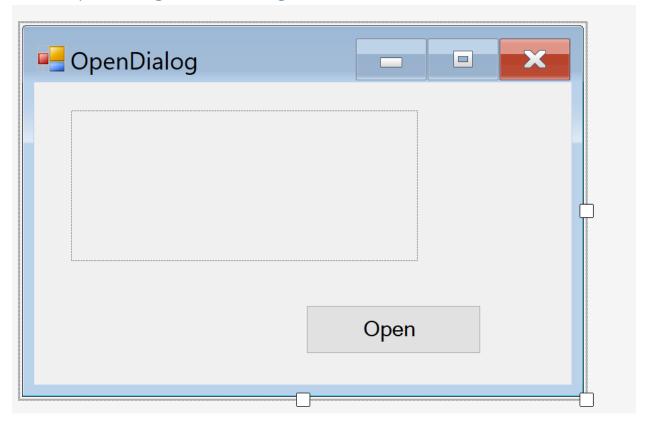
```
DrawMouse.cs → X DrawbyText.cs [Design] DrawMouse.cs [Design] Form1.cs Form1.cs [Design]

Total Color color;
Point oldPoint;
Bitmap bmpmem;

1 reference
private void DrawMouse_Load(object sender, EventArgs e)
{
    penW = 1;
    color = Color.Red;
    bmpmem = new Bitmap(ClientRectangle.Width, ClientRectangle.Height, CreateGraphics());
}
```

```
private void DrawMouse_Paint(object sender, PaintEventArgs e)
    e.Graphics.DrawImageUnscaled(bmpmem, 10, 10);
1 reference
private void DrawMouse_MouseDown(object sender, MouseEventArgs e)
    oldPoint = e.Location;
private void DrawMouse_MouseMove(object sender, MouseEventArgs e)
    //nhan chuot trai
    if (e.Button == MouseButtons.Left)
        //đối tượng vẽ, graphic
        Graphics g = Graphics.FromImage(bmpmem);
        Pen pen = new Pen(color, penW);
        pen.DashCap = DashCap.Round;
        pen.EndCap = LineCap.Round;
        pen.StartCap = LineCap.Round;
        g.DrawLine(pen, oldPoint, e.Location);
        oldPoint = e.Location;
        Invalidate();//ve lai, goi ham paint
private void DrawMouse_KeyDown(object sender, KeyEventArgs e)
    switch (e.KeyCode)
        case Keys.R: color = Color.Red; break;
        case Keys.G: color = Color.Green; break;
        case Keys.B: color = Color.Blue; break;
        case Keys.Up: penW++; break;
        case Keys.Down: penW--; break;
    }
```

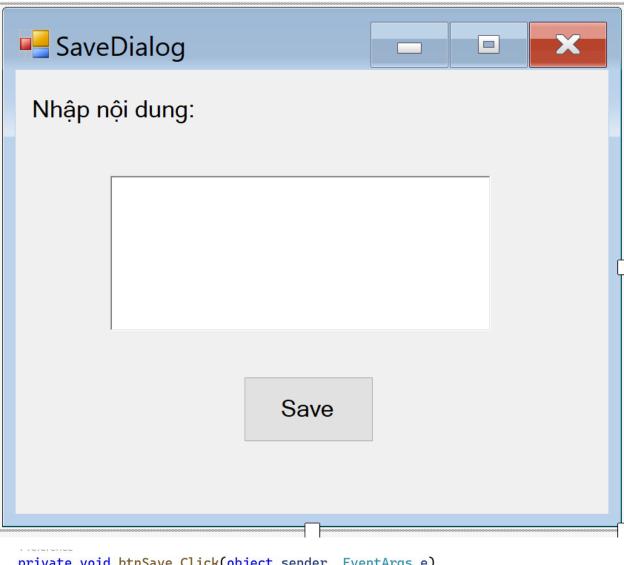
Bài 4: OpenDialog và SaveDialog



Mở 1 ảnh, pictureBox

```
private void btnOpen_Click(object sender, EventArgs e)
{
    OpenFileDialog openFile = new OpenFileDialog();
    //set tiêu đề
    openFile.Title = "mở file LTGD ";
    //check dk loc file "File anh|*.jpg;*.png;|All file|*.*";
    openFile.Filter = "File anh|*.jpg;|All file|*.*";
    //check xem nguoi dung da chon file hay chua
    if(openFile.ShowDialog() == DialogResult.OK)
    {
        pictureBox1.Image = Image.FromFile(openFile.FileName);
    }
}
```

SaveDialog



```
private void btnSave_Click(object sender, EventArgs e)
{
    //tieu de
    saveFileDialog1.Title = " day la tieu de lưu nội dung";
    //filter
    saveFileDialog1.Filter = "File text|*.txt |File pdf|*.pdf |All File|*.*";
    if (saveFileDialog1.ShowDialog() == DialogResult.OK)
    {
        File.WriteAllText(saveFileDialog1.FileName, rtxtND.Text);
    }
    else
    {
        MessageBox.Show("Bạn chưa lưu nội dung");
    }
}
```

end