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Bonus Task

Tools used:

1. Buttons
2. PictureBoxes
3. Colordialog

Code:

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 WindowsFormsApp1

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void button1\_Click(object sender, EventArgs e)

{

colorDialog1.AllowFullOpen = true;

colorDialog1.FullOpen = true;

if (colorDialog1.ShowDialog() == DialogResult.OK)

{

pictureBox4.BackColor = colorDialog1.Color;

}

}

private void button2\_Click(object sender, EventArgs e)

{

colorDialog1.AllowFullOpen = true;

colorDialog1.FullOpen = true;

if (colorDialog1.ShowDialog() == DialogResult.OK)

{

pictureBox5.BackColor = colorDialog1.Color;

}

}

private void button3\_Click(object sender, EventArgs e)

{

colorDialog1.AllowFullOpen = true;

colorDialog1.FullOpen = true;

if (colorDialog1.ShowDialog() == DialogResult.OK)

{

pictureBox2.BackColor = colorDialog1.Color;

}

}

private void button4\_Click(object sender, EventArgs e)

{

colorDialog1.AllowFullOpen = true;

colorDialog1.FullOpen = true;

if (colorDialog1.ShowDialog() == DialogResult.OK)

{

pictureBox1.BackColor = colorDialog1.Color;

}

}

private void button5\_Click(object sender, EventArgs e)

{

int r = 0, g=0,b=0;

r= (pictureBox1.BackColor.R\* 2 / 7 ) + (pictureBox2.BackColor.R \* 2 / 7) + (pictureBox4.BackColor.R \* 3 / 14 )+( pictureBox5.BackColor.R \* 3 / 14);

g = (pictureBox1.BackColor.G \* 2 / 7) + (pictureBox2.BackColor.G \* 2 / 7) + (pictureBox4.BackColor.G \* 3 / 14) + (pictureBox5.BackColor.G \* 3 / 14);

b = (pictureBox1.BackColor.B \* 2 / 7) + (pictureBox2.BackColor.B \* 2 / 7) + (pictureBox4.BackColor.B \* 3 / 14) + (pictureBox5.BackColor.B \* 3 / 14);

pictureBox3.BackColor = Color.FromArgb(r,g,b);

}

private void button6\_Click(object sender, EventArgs e)

{

int r1 = pictureBox1.BackColor.R, r2 = pictureBox2.BackColor.R, r3 = pictureBox3.BackColor.R, r4 = pictureBox4.BackColor.R, r5 = pictureBox5.BackColor.R;

int g1 = pictureBox1.BackColor.G, g2 = pictureBox2.BackColor.G, g3 = pictureBox3.BackColor.G, g4 = pictureBox4.BackColor.G, g5 = pictureBox5.BackColor.G;

int b1 = pictureBox1.BackColor.B, b2 = pictureBox2.BackColor.B, b3 = pictureBox3.BackColor.B, b4 = pictureBox4.BackColor.B, b5 = pictureBox5.BackColor.B;

label1.Text= ("RGB= (" + r1 + "," + g1 + "," + b1+")");

label2.Text = ("RGB= (" + r2 + "," + g2 + "," + b2+")");

label3.Text = ("RGB= (" + r3 + "," + g3 + "," + b3+")");

label4.Text = ("RGB= (" + r4 + "," + g4 + "," + b4+")");

label5.Text = ("RGB= (" + r5 + "," + g5 + "," + b5+")");

}

}

}

Link for full project:

https://drive.google.com/drive/folders/1hl08XqP7PZhrQLfrdQNjYUV8yCkgPvgN?usp=share\_link