

Joc de culori

Descrierea programului:

Ruland acest program creat in Windows Form Application, putem combina culorile rosu, verde respectiv albastru, in diferite nuante de culori. Pentru acest program am avut nevoie de: un label si 3 TrackBar-uri.

Codul sursa:

```
#pragma once

namespace Lab13_2 {

    using namespace System;
    using namespace System::ComponentModel;
    using namespace System::Collections;
    using namespace System::Windows::Forms;
    using namespace System::Data;
    using namespace System::Drawing;

    /// <summary>
    /// Summary for Form1
    /// </summary>
    public ref class Form1 : public System::Windows::Forms::Form
    {
    public:
        Form1(void)
        {
            InitializeComponent();
            //
            //TODO: Add the constructor code here
            //
        }

    protected:
        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        ~Form1()
        {
            if (components)
            {
                delete components;
            }
        }

    private: System::Windows::Forms::TrackBar^ trackBar1;
    private: System::Windows::Forms::TrackBar^ trackBar2;
    private: System::Windows::Forms::TrackBar^ trackBar3;
    private: System::Windows::Forms::Label^ label1;
    protected:

    private:
        /// <summary>
        /// Required designer variable.
        /// </summary>
        System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code
        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        void InitializeComponent(void)
        {
            this->trackBar1 = (gcnew System::Windows::Forms::TrackBar());
```

```

        this->trackBar2 = (gcnew System::Windows::Forms::TrackBar());
        this->trackBar3 = (gcnew System::Windows::Forms::TrackBar());
        this->label1 = (gcnew System::Windows::Forms::Label());
        (cli::safe_cast<System::ComponentModel::ISupportInitialize^
>(this->trackBar1))->BeginInit();
        (cli::safe_cast<System::ComponentModel::ISupportInitialize^
>(this->trackBar2))->BeginInit();
        (cli::safe_cast<System::ComponentModel::ISupportInitialize^
>(this->trackBar3))->BeginInit();
        this->SuspendLayout();
        //
        // trackBar1
        //
        this->trackBar1->BackColor = System::Drawing::Color::Red;
        this->trackBar1->Location = System::Drawing::Point(42, 62);
        this->trackBar1->Maximum = 255;
        this->trackBar1->Name = L"trackBar1";
        this->trackBar1->Size = System::Drawing::Size(350, 45);
        this->trackBar1->TabIndex = 0;
        this->trackBar1->Scroll += gcnew System::EventHandler(this,
&Form1::trackBar1_Scroll);
        //
        // trackBar2
        //
        this->trackBar2->BackColor = System::Drawing::Color::Green;
        this->trackBar2->Location = System::Drawing::Point(42, 154);
        this->trackBar2->Maximum = 255;
        this->trackBar2->Name = L"trackBar2";
        this->trackBar2->Size = System::Drawing::Size(350, 45);
        this->trackBar2->TabIndex = 1;
        this->trackBar2->Scroll += gcnew System::EventHandler(this,
&Form1::trackBar2_Scroll);
        //
        // trackBar3
        //
        this->trackBar3->BackColor = System::Drawing::Color::Blue;
        this->trackBar3->Location = System::Drawing::Point(42, 257);
        this->trackBar3->Maximum = 255;
        this->trackBar3->Name = L"trackBar3";
        this->trackBar3->Size = System::Drawing::Size(350, 45);
        this->trackBar3->TabIndex = 2;
        this->trackBar3->Scroll += gcnew System::EventHandler(this,
&Form1::trackBar3_Scroll);
        //
        // label1
        //
        this->label1->AutoSize = true;
        this->label1->Location = System::Drawing::Point(12, 9);
        this->label1->Name = L"label1";
        this->label1->Size = System::Drawing::Size(35, 13);
        this->label1->TabIndex = 3;
        this->label1->Text = L"label1";
        //
        // Form1
        //
        this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);
        this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;
        this->ClientSize = System::Drawing::Size(428, 439);
        this->Controls->Add(this->label1);
        this->Controls->Add(this->trackBar3);
        this->Controls->Add(this->trackBar2);
        this->Controls->Add(this->trackBar1);
        this->Name = L"Form1";
        this->Text = L"Form1";
        (cli::safe_cast<System::ComponentModel::ISupportInitialize^
>(this->trackBar1))->EndInit();
        (cli::safe_cast<System::ComponentModel::ISupportInitialize^
>(this->trackBar2))->EndInit();
        (cli::safe_cast<System::ComponentModel::ISupportInitialize^
>(this->trackBar3))->EndInit();
        this->ResumeLayout(false);

```

```

        this->PerformLayout();
    }
#pragma endregion
    private: System::Void trackBar1_Scroll(System::Object^ sender,
System::EventArgs^ e) {

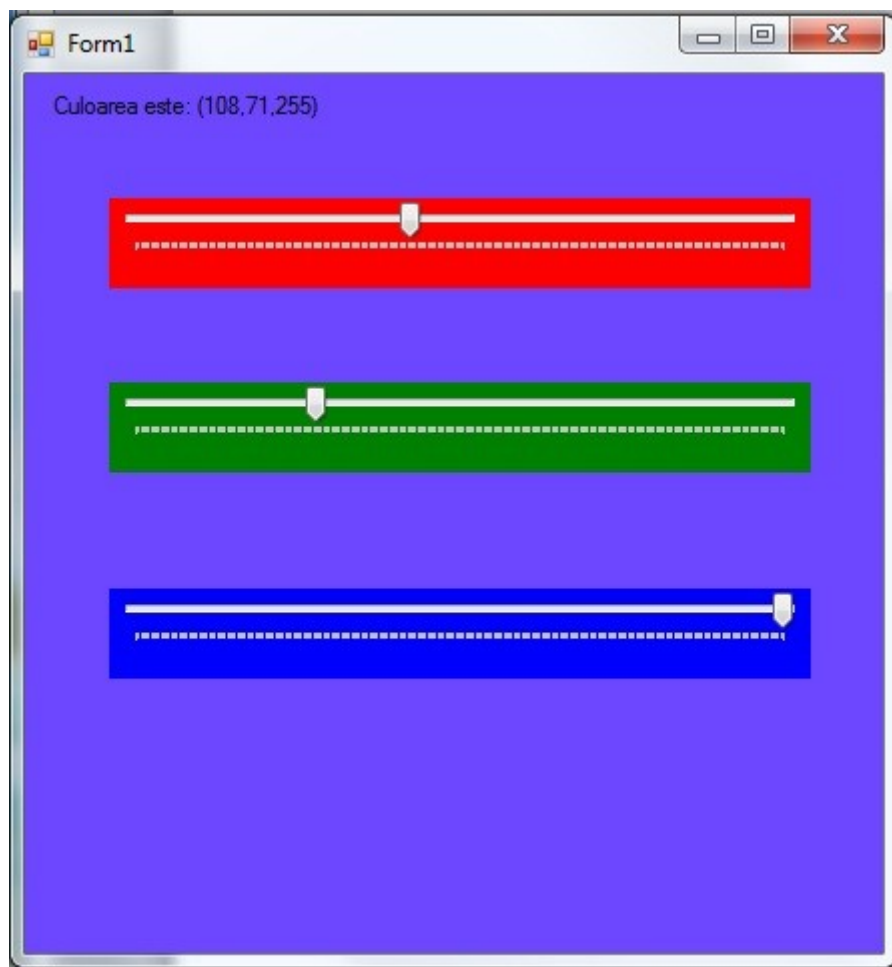
        ChangeColor();
    }
    private: void ChangeColor()
    {
        this->BackColor = Color::FromArgb(
            this->trackBar1->Value,
            this->trackBar2->Value,
            this->trackBar3->Value);
        this->label1->Text="Culoarea este: (" + this->trackBar1-
>Value+", "+ this->trackBar2->Value+", "+ this->trackBar3->Value+)";
    }
    private: System::Void trackBar2_Scroll(System::Object^ sender,
System::EventArgs^ e) {
        ChangeColor();

    }
private: System::Void trackBar3_Scroll(System::Object^ sender, System::EventArgs^ e)
{
    ChangeColor();
}

};
}

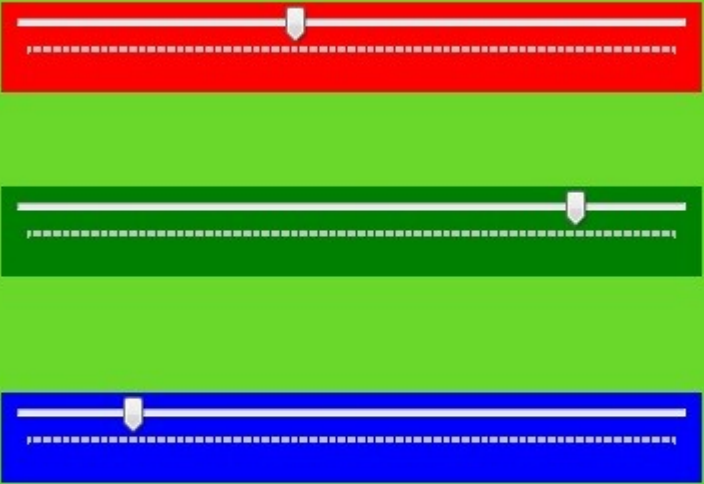
```

Ruland programul obtinem:



Form1

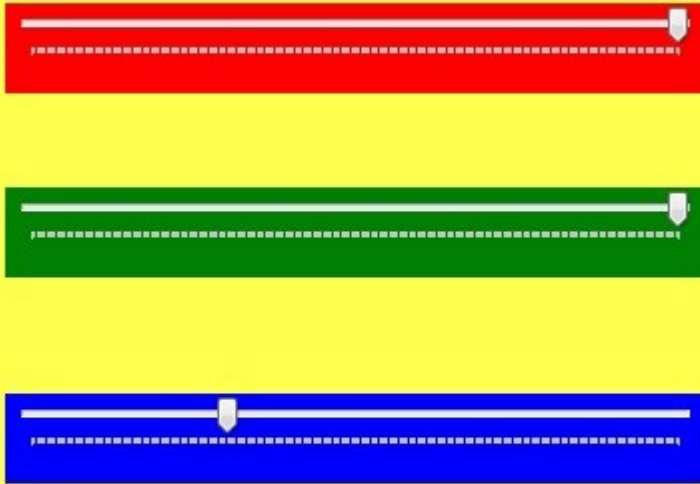
Culoarea este: (106,216,42)



The image shows a Windows-style window titled "Form1" with a green background. At the top left, it displays the text "Culoarea este: (106,216,42)". Below this text are three horizontal sliders, each with a different colored background: red, green, and blue. Each slider has a white track with a white arrow pointing to a specific value. The red slider is positioned at approximately 50%, the green slider is at approximately 80%, and the blue slider is at approximately 20%.

Form1

Culoarea este: (255,255,77)



The image shows a Windows-style window titled 'Form1' with a yellow background. At the top, it displays the text 'Culoarea este: (255,255,77)'. Below this text are three horizontal sliders. The top slider is red and has a white arrow pointing to the right end. The middle slider is green and also has a white arrow pointing to the right end. The bottom slider is blue and has a white arrow pointing to the left end. Each slider consists of a horizontal bar with a dashed line running through its center.