

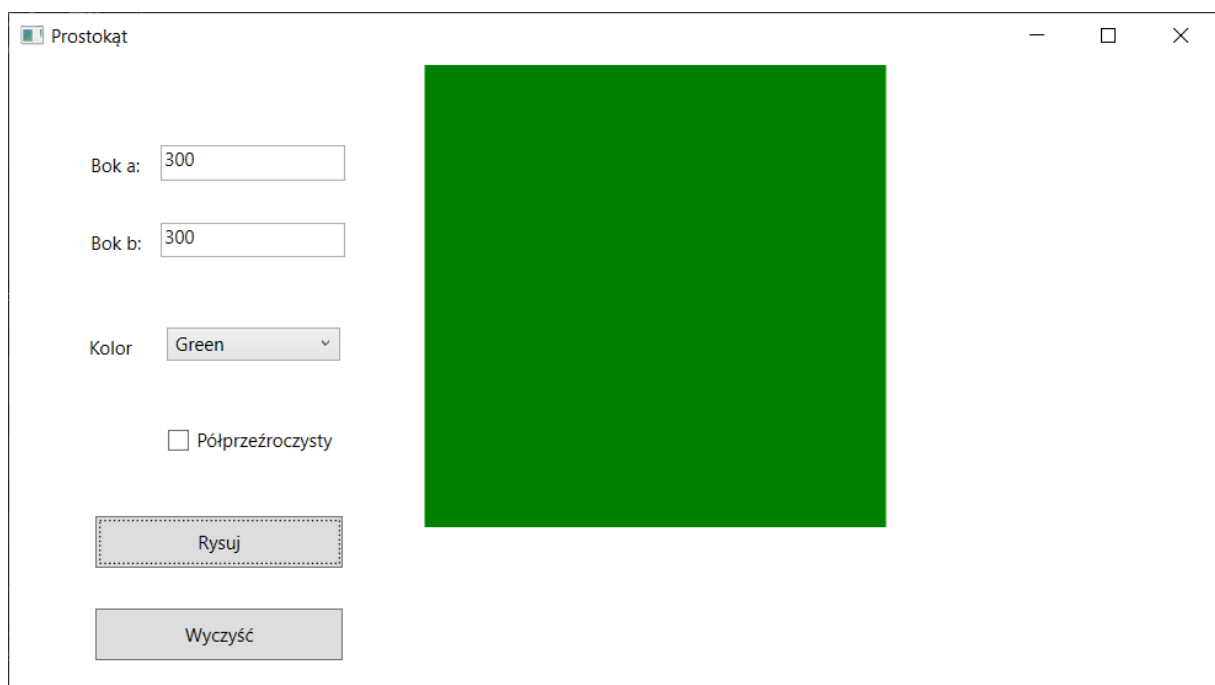
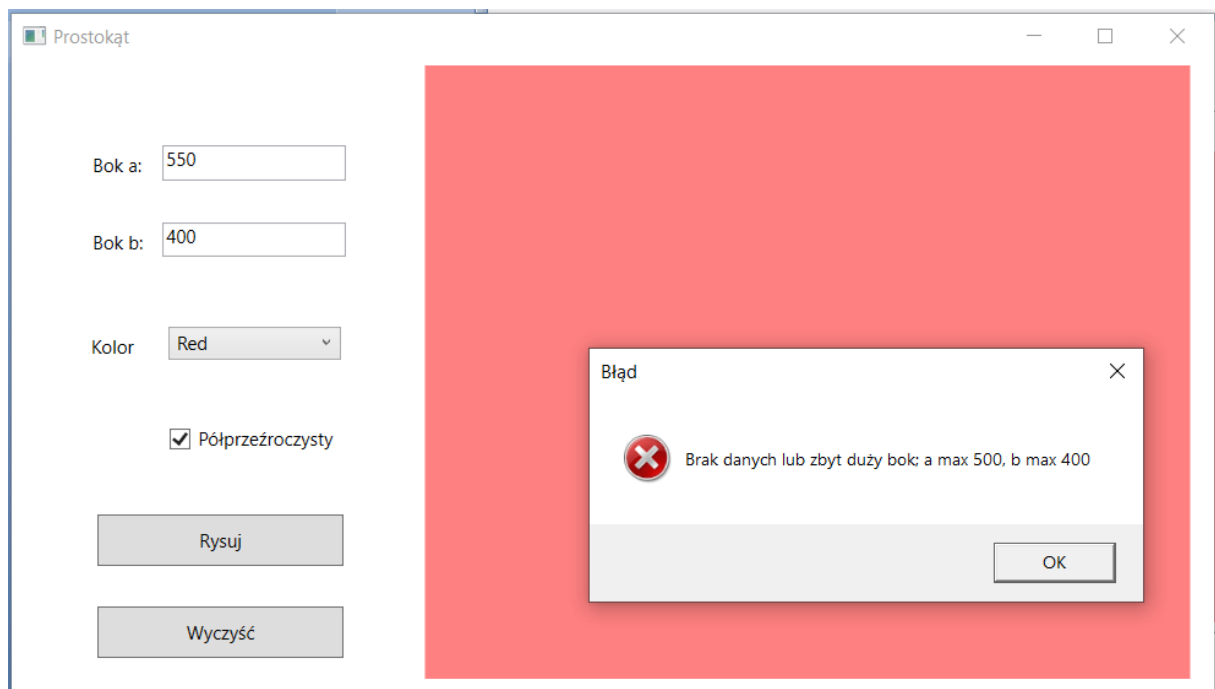
Zaprojektuj aplikację rysującą prostokąt

The screenshot shows a WPF application window titled "Prostokąt". It contains the following controls:

- Two text input fields labeled "Bok a:" and "Bok b:".
- A color selection dropdown menu labeled "Kolor" with "Black" selected.
- A checkbox labeled "Półprzeźroczysty" (checked).
- A button labeled "Rysuj" (disabled).
- A button labeled "Wyczyść" (disabled).

The screenshot shows the same WPF application window after the "Rysuj" button has been clicked. The controls are now:

- "Bok a:" contains the value "500".
- "Bok b:" contains the value "400".
- "Kolor" dropdown shows "Red".
- "Półprzeźroczysty" checkbox is checked.
- The "Rysuj" button is now enabled and highlighted with a dashed border.
- A large red rectangle is drawn on the right side of the window.
- The "Wyczyść" button remains disabled.



```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Navigation;
using System.Windows.Shapes;

namespace Prostokat
{
    /// <summary>
    /// Logika interakcji dla klasy MainWindow.xaml
    /// </summary>
    public partial class MainWindow : Window
    {
        public MainWindow()
        {
            InitializeComponent();

            private void BtnRysuj_Click(object sender, RoutedEventArgs e)
            {
                double bokA, bokB;
                if(double.TryParse(txtA.Text, out bokA) && double.TryParse(txtB.Text, out
                bokB) && bokA<=500 && bokB<=400)
                {
                    rectangle1.Width = bokA;
                    rectangle1.Height = bokB;

                    BrushConverter brushConverter = new BrushConverter();
                    SolidColorBrush kolor =
                    (SolidColorBrush)brushConverter.ConvertFromString(cmbKolory.Text);
                    rectangle1.Stroke = kolor;
                    rectangle1.Fill = kolor;
                    rectangle1.Opacity = (cbPrzezroczysty.IsChecked.Value) ? 0.5 : 1;
                }
                else
                {
                    MessageBox.Show("Brak danych lub zbyt duży bok; a max 500, b max 400",
                    "Błąd", MessageBoxButton.OK, MessageBoxImage.Error);
                }
            }

            private void BtnWyczysc_Click(object sender, RoutedEventArgs e)
            {
                txtA.Text = string.Empty;
                txtB.Text = string.Empty;
                rectangle1.Opacity = 1;
                cmbKolory.SelectedIndex = 0;
                cbPrzezroczysty.IsChecked = false;
                rectangle1.Width = 0;
                rectangle1.Height = 0;
            }
        }
    }
}

```