

Отчёт студента ПОКС-31В

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Практическая №8

Window x:Class="Практическая\_8\_12\_.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Практическая\_8\_12\_" xmlns:sys="clr-namespace:System;assembly=mscorlib"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Window.Resources>

<Style x:Key="style1">

<Setter Property="Shape.Fill">

<Setter.Value>

<LinearGradientBrush>

<GradientStop Offset="0" Color="White"/>

<GradientStop Offset="0.5" Color="Pink"/>

<GradientStop Offset="1" Color="Red"/>

</LinearGradientBrush>

</Setter.Value>

</Setter>

<Setter Property="Shape.Stroke" Value="Black"/>

<Setter Property="Shape.StrokeThickness" Value="10"/>

</Style>

<Style x:Key="style2">

<Setter Property="Shape.Fill" Value="Pink"/>

<Setter Property="Shape.Stroke" Value="Violet"/>

<Setter Property="Shape.StrokeThickness" Value="3"/>

</Style>

<Style x:Key="style3">

<Setter Property="Shape.StrokeThickness" Value="5"/>

<Setter Property="Shape.Stroke" Value="DarkGreen"/>

<Setter Property="Shape.StrokeThickness" Value="2"/>

</Style>

<Style x:Key="style4">

<Setter Property="Shape.Fill" Value="Blue"/>

<Setter Property="Shape.Stroke" Value="LightCoral"/>

<Setter Property="Shape.StrokeThickness" Value="4"/>

</Style>

<Style TargetType="Button">

<Style.Setters>

<Setter Property="Button.Background" Value="Black"/>

<Setter Property="Button.Foreground" Value="White"/>

</Style.Setters>

<Style.Triggers>

<Trigger Property="IsMouseOver" Value="True">

<Setter Property="Button.Foreground" Value="Red"/>

</Trigger>

</Style.Triggers>

</Style>

</Window.Resources>

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="Auto"/>

<RowDefinition/>

</Grid.RowDefinitions>

<Grid>

<Grid.ColumnDefinitions>

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        <ColumnDefinition/>

        <ColumnDefinition Width="Auto"/>

    </Grid.ColumnDefinitions>

    <TextBox Name="FigureCount" ToolTip="Inter figere Count" Margin="5" Text="15"/>

    <Button Grid.Column="1" Click="Button_Click">Generate Shapes

    </Button>

</Grid>

<Canvas Name="MainCanvas" Grid.Row="1" Margin="5">

</Canvas>

</Grid>
</Window>

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namespace Практическая_8_12_
{
    /// <summary>
    /// Логика взаимодействия для MainWindow.xaml
    /// </summary>

    public partial class MainWindow : Window
    {
        public MainWindow()
        {
            InitializeComponent();
        }

        private void Button_Click(object sender, RoutedEventArgs e)
        {
            int N = 15;

            try
            {
                N = Convert.ToInt32(FigureCount.Text);
            }
            catch { }
        }
    }
}

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    }
    catch (Exception ee)
    {
        this.Title = "Только целое число!";
    }
    GenerateShapes(N);
}

private void GenerateShapes(int N)
{
    Random rndShapeType = new Random(DateTime.Now.Millisecond);
    Random rndStyle = new Random(DateTime.Now.Second);
    Random rndPosition = new Random(DateTime.Now.Minute);
    Random rndSize = new Random(DateTime.Now.Minute);
    for (int i = 0; i < N; i++)
    {
        Shape currentShape;
        int shapeType = rndShapeType.Next(0, 2);
        if (shapeType == 0)
            currentShape = new Ellipse();
        else
            currentShape = new Rectangle();
        int shapeStyle = rndStyle.Next(0, 3) + 1;
        String styleName = "style" + shapeStyle.ToString();
        Style currentStyle = (Style)this.FindResource(styleName);
        currentShape.Style = currentStyle;
        currentShape.Width = rndSize.Next(10, 200);
        currentShape.Height = rndSize.Next(10, 100);
        MainCanvas.Children.Add(currentShape);
        Canvas.SetLeft(currentShape, rndPosition.Next(5, 750));
        Canvas.SetTop(currentShape, rndPosition.Next(5, 370));
    }
}

```

```
}  
  
}  
  
}  
  
}
```

