Xaml

Title="MainWindow" Height="450" Width="400">

<Grid x:Name="Main">

<Grid.RowDefinitions>

<RowDefinition Height="0.5\*"/>

<RowDefinition Height="2\*"/>

<RowDefinition Height="0.5\*"/>

<RowDefinition/>

<RowDefinition Height="0.5\*"/>

<RowDefinition/>

<RowDefinition Height="0.5\*"/>

<RowDefinition/>

<RowDefinition Height="0.5\*"/>

<RowDefinition/>

<RowDefinition Height="0.5\*"/>

</Grid.RowDefinitions>

<Grid.ColumnDefinitions>

<ColumnDefinition Width="0.25\*"/>

<ColumnDefinition/>

<ColumnDefinition Width="0.5\*"/>

<ColumnDefinition/>

<ColumnDefinition Width="0.5\*"/>

<ColumnDefinition/>

<ColumnDefinition Width="0.5\*"/>

<ColumnDefinition/>

<ColumnDefinition Width="0.25\*"/>

</Grid.ColumnDefinitions>

<!--Кнопки чисел-->

<Button x:Name="n1" Grid.Row="3" Grid.Column="1" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="1" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n2" Grid.Row="3" Grid.Column="3" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="2" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n3" Grid.Row="3" Grid.Column="5" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="3" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n4" Grid.Row="5" Grid.Column="1" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="4" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n5" Grid.Row="5" Grid.Column="3" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="5" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n6" Grid.Row="5" Grid.Column="5" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="6" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n7" Grid.Row="7" Grid.Column="1" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="7" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n8" Grid.Row="7" Grid.Column="3" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="8" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n9" Grid.Row="7" Grid.Column="5" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="9" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="n0" Grid.Row="9" Grid.Column="3" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="0" FontSize="20" FontFamily="Times New Roman"/>

<!--Кнопки операций-->

<Button x:Name="bAdd" Grid.Row="3" Grid.Column="7" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="+" Background="Purple" FontSize="20"/>

<Button x:Name="bSubtract" Grid.Row="5" Grid.Column="7" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="-" Background="Purple" FontSize="20"/>

<Button x:Name="bMultiply" Grid.Row="7" Grid.Column="7" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="\*" Background="Purple" FontSize="20"/>

<Button x:Name="bDivide" Grid.Row="9" Grid.Column="7" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="/" Background="Purple" FontSize="20"/>

<Button x:Name="bClear" Grid.Row="9" Grid.Column="1" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="C" Background="PaleVioletRed" FontSize="20" FontFamily="Times New Roman"/>

<Button x:Name="bEquals" Grid.Row="9" Grid.Column="5" Grid.ColumnSpan="1" Grid.RowSpan="1" Content="=" FontSize="20" Background="LightGreen"/>

<!--Вывод-->

<TextBlock x:Name="txbDisplay" Grid.Row="1" Grid.Column="1" Grid.ColumnSpan="7" Grid.RowSpan="1" HorizontalAlignment="Right" VerticalAlignment="Center" Background="White" FontSize="30" FontFamily="Times New Roman"/>

</Grid>

</Window>

CS

using System;

using System.Data;

using System.Collections.Generic;

using System.Globalization;

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 Calculator

{

/// <summary>

/// Логика взаимодействия для MainWindow.xaml

/// </summary>

public partial class MainWindow : Window

{

public MainWindow()

{

InitializeComponent();

foreach(UIElement element in Main.Children)

{

if(element is Button)

{

((Button) element).Click += Button\_Click;

}

}

}

private void Button\_Click(object sender, RoutedEventArgs e)

{

string str = (string)((Button)e.OriginalSource).Content;

if(str == "C")

{

txbDisplay.Text = "";

}

else

{

if(str == "=")

{

string value = new DataTable().Compute(txbDisplay.Text, null).ToString();

txbDisplay.Text = value;

}

else

{

txbDisplay.Text += str;

}

}

}

}

}