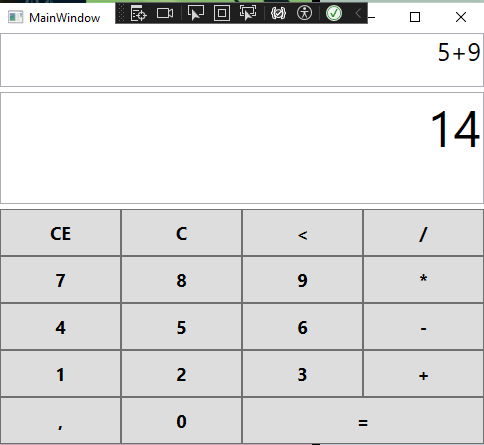
ЛАБОРАТОРНА РОБОТА №11-12

ТЕМА: СТВОРЕННЯ ДОДАТКУ КАЛЬКУЛЯТОР В WPF



| MainWindow.xaml |
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| <Window x:Class="WpfApp10.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:WpfApp10"  mc:Ignorable="d"  Title="MainWindow" Height="450" Width="500">  <Grid Name="grid1">  <Grid.RowDefinitions>  <RowDefinition Height="1\*"/>  <RowDefinition Height="2\*"/>  <RowDefinition Height="4\*"/>  </Grid.RowDefinitions>  <TextBox Name="txtbox1" Grid.Row="0" TextAlignment="Right" FontSize="25" IsReadOnly="false" Margin="0,0,0,5"/>  <TextBox Name="txtbox2" Grid.Row="1" TextAlignment="Right" FontSize="50" IsReadOnly="True" Margin="0,0,0,5"/>  <Border Grid.Row="2">  <Grid Name="grid2">  <Grid.RowDefinitions>  <RowDefinition Height="1\*"/>  <RowDefinition Height="1\*"/>  <RowDefinition Height="1\*"/>  <RowDefinition Height="1\*"/>  <RowDefinition Height="1\*"/>  </Grid.RowDefinitions>  <Grid.ColumnDefinitions>  <ColumnDefinition Width="\*"/>  <ColumnDefinition Width="\*"/>  <ColumnDefinition Width="\*"/>  <ColumnDefinition Width="\*"/>  </Grid.ColumnDefinitions>  <Button Name="btn1" Content="CE" FontWeight="Bold" FontSize="18"  Grid.Row="0" Grid.Column="0" Click="clear"/>  <Button Name="btn2" Content="C" FontWeight="Bold" FontSize="18"  Grid.Row="0" Grid.Column="1" Click="clear"/>  <Button Name="btn3" Content="&lt;" FontWeight="Bold" FontSize="18"  Grid.Row="0" Grid.Column="2" Click="Backspace\_Click"/>  <Button Name="btn4" Content="/" FontWeight="Bold" FontSize="18"  Grid.Row="0" Grid.Column="3" Click="Operation\_Click"/>  <Button Name="btn5" Content="7" FontWeight="Bold" FontSize="18"  Grid.Row="1" Grid.Column="0" Click="funeral"/>  <Button Name="btn6" Content="8" FontWeight="Bold" FontSize="18"  Grid.Row="1" Grid.Column="1" Click="funeral"/>  <Button Name="btn7" Content="9" FontWeight="Bold" FontSize="18"  Grid.Row="1" Grid.Column="2" Click="funeral"/>  <Button Name="btn8" Content="\*" FontWeight="Bold" FontSize="18"  Grid.Row="1" Grid.Column="3" Click="Operation\_Click"/>  <Button Name="btn9" Content="4" FontWeight="Bold" FontSize="18"  Grid.Row="2" Grid.Column="0" Click="funeral"/>  <Button Name="btn10" Content="5" FontWeight="Bold" FontSize="18"  Grid.Row="2" Grid.Column="1" Click="funeral"/>  <Button Name="btn11" Content="6" FontWeight="Bold" FontSize="18"  Grid.Row="2" Grid.Column="2" Click="funeral"/>  <Button Name="btn12" Content="-" FontWeight="Bold" FontSize="18"  Grid.Row="2" Grid.Column="3" Click="Operation\_Click"/>  <Button Name="btn13" Content="1" FontWeight="Bold" FontSize="18"  Grid.Row="3" Grid.Column="0" Click="funeral"/>  <Button Name="btn14" Content="2" FontWeight="Bold" FontSize="18"  Grid.Row="3" Grid.Column="1" Click="funeral"/>  <Button Name="btn15" Content="3" FontWeight="Bold" FontSize="18"  Grid.Row="3" Grid.Column="2" Click="funeral"/>  <Button Name="btn16" Content="+" FontWeight="Bold" FontSize="18"  Grid.Row="3" Grid.Column="3" Click="Operation\_Click"/>  <Button Name="btn17" Content="," FontWeight="Bold" FontSize="18"  Grid.Row="4" Grid.Column="0" Click="btn\_Convert"/>  <Button Name="btn18" Content="0" FontWeight="Bold" FontSize="18"  Grid.Row="4" Grid.Column="1"/>  <Button Name="btn19" Content="=" FontWeight="Bold" FontSize="18"  Grid.Row="4" Grid.Column="2" Grid.ColumnSpan="2" Grid.RowSpan="2" Click="Equals\_Click"/>  </Grid>  </Border>  </Grid>  </Window> |

| MainWindow.xaml.cs |
| --- |
| 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 WpfApp10  {  /// <summary>  /// Логика взаимодействия для MainWindow.xaml  /// </summary>  public partial class MainWindow : Window  {  private double? firstNum = null;  public string operation = null;  public MainWindow()  {  InitializeComponent();  }  private void funeral(object sender, RoutedEventArgs e)  {  Button button = (Button)sender;  txtbox1.Text += button.Content;  }    private void Operation\_Click(object sender, RoutedEventArgs e)  {  if (firstNum == null)  {  firstNum = Convert.ToDouble(txtbox1.Text);  Button button = (Button)sender;  operation = button.Content.ToString();  txtbox1.Text += operation;  }  }  private void clear(object sender, RoutedEventArgs e)  {  Button button = (Button)sender;  if (button.Content.ToString() == "CE")  {  txtbox1.Text = "";  }  else  {  txtbox1.Text = "";  txtbox2.Text = "";  firstNum = null;  operation = null;  }  }  private void Equals\_Click(object sender, RoutedEventArgs e)  {  if (firstNum != null)  {  double secondNum;  if (operation != null)  {  secondNum = Convert.ToDouble(txtbox1.Text.Substring(firstNum.ToString().Length + 1));  }  else  {  secondNum = Convert.ToDouble(txtbox1.Text);  }  switch (operation)  {  case "+":  txtbox2.Text = (firstNum + secondNum).ToString();  break;  case "-":  txtbox2.Text = (firstNum - secondNum).ToString();  break;  case "\*":  txtbox2.Text = (firstNum \* secondNum).ToString();  break;  case "/":  if (secondNum != 0)  txtbox2.Text = (firstNum / secondNum).ToString();  else  txtbox2.Text = "Error";  break;  }  firstNum = null;  operation = null;  }  }  private void Backspace\_Click(object sender, RoutedEventArgs e)  {  if (!string.IsNullOrEmpty(txtbox1.Text))  {  txtbox1.Text = txtbox1.Text.Remove(txtbox1.Text.Length - 1);  }  }  private void btn\_Convert(object sender, RoutedEventArgs e)  {  if (!txtbox1.Text.Contains(","))  {  if (string.IsNullOrEmpty(txtbox1.Text))  {  txtbox1.Text = "0,";  }  else  {  txtbox1.Text += ",";  }  }  }  }  } |