Чупеев Лаб 7

using System;  
using System.Data.Common;  
using System.IO;  
using System.Linq;  
using System.Net;  
using System.Reflection;  
using System.Security.Policy;  
using System.Threading.Tasks;  
using System.Windows;  
  
namespace Task\_1  
{  
 */// <summary>*  
 */// Interaction logic for MainWindow.xaml*  
 */// </summary>*  
public partial class MainWindow  
 {  
 private string \_nl = Environment.NewLine;  
 private Random \_rand = new Random();  
 public MainWindow()  
 {  
 InitializeComponent();  
 }  
  
 private void Step1\_OnClick(object sender, RoutedEventArgs e)  
 {  
 var a = new string[100];  
 var sum = 0;  
 for (var i = 0; i < 100; i++)  
 {  
 var num = \_rand.Next(100000, 999999);  
 a[i] = num.ToString();  
 sum += num;  
 }  
 TextBoxConsole.Text = $"Данные (100 целых чисел) сгенерированы {\_nl}Общая сумма: {sum}{\_nl}";  
  
   
 File.WriteAllLines("data.txt",a.Reverse());  
 using (var fs = new FileStream("data.dat", FileMode.**Open**))  
 {  
 var bw = new BinaryWriter(fs);  
 foreach (var num in a)  
 {  
 bw.Write(Convert.ToInt32(num));  
 }  
 fs.Close();  
 }  
   
 TextBoxConsole.Text += $"Данные записаны в data.dat{\_nl}Данные записаны в data.txt{\_nl}";  
   
 Step2.Visibility = Visibility.**Visible**;  
 }  
  
 private void Step2\_OnClick(object sender, RoutedEventArgs e)  
 {  
 TextBoxConsole.Text += $"Файл data.dat считан{\_nl}";  
 using (var fs = new FileStream("data.dat", FileMode.**Open**))  
 {  
 var br = new BinaryReader(fs);  
 for (var i = 0; i < 100; i++)  
 {  
 var a = br.ReadInt32();  
 if (i == 0) TextBoxConsole.Text += $"a[0]={a} ";  
 if (i == 99) TextBoxConsole.Text += $"a[99]={a}{\_nl}";  
 }  
 fs.Close();  
 }  
 Step3.Visibility = Visibility.**Visible**;  
 }  
  
 private void Step3\_OnClick(object sender, RoutedEventArgs e)  
 {  
 var lines = File.ReadAllLines("data.txt");  
 TextBoxConsole.Text += $"Файл data.txt считан{\_nl}";  
 TextBoxConsole.Text += $"a[0]={lines[0]} a[99]={lines[99]}{\_nl}";  
 }  
 }  
}

<Window x:Class="Task\_1.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:Task\_1"  
 mc:Ignorable="d"  
 Background="Aquamarine"  
 Title="MainWindow" Height="400" Width="600">  
 <Grid>  
 <Button Content="Шаг 1"  
 Width="200"   
 Height="50"   
 VerticalAlignment="**Top**"   
 HorizontalAlignment="**Left**"   
 Margin="10"   
 Click="Step1\_OnClick"   
 x:Name="Step1"></Button>  
 <Button Content="Шаг 2"   
 Width="200"   
 Height="50"   
 VerticalAlignment="**Center**"   
 HorizontalAlignment="**Left**"   
 Margin="10"   
 Visibility="**Hidden**"   
 Click="Step2\_OnClick"   
 x:Name="Step2"></Button>  
 <Button Content="Шаг 3"   
 Width="200"   
 Height="50"   
 VerticalAlignment="**Bottom**"   
 HorizontalAlignment="**Left**"  
 Margin="10"   
 Visibility="**Hidden**"  
 Click="Step3\_OnClick"  
 x:Name="Step3"></Button>  
 <TextBox Width="290"   
 Height="320"   
 HorizontalAlignment="**Right**"   
 Margin="10"   
 x:Name="TextBoxConsole"></TextBox>  
 </Grid>   
</Window>