Федеральное государственное бюджетное образовательное учреждение высшего образования «Саратовский государственный технический университет имени Гагарина Ю. А.»

Кафедра «Прикладные информационные технологии»

ОТЧЕТ по лабораторной работе №3

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1

```
using System;
using System.Drawing;
using System.Drawing.Printing;
using System.Text.RegularExpressions;
using System.Windows.Forms;
namespace Lab 3
{
    public partial class PamphletForm : Form
        private String fileName;
        protected Image image;
        public String documentContents;
        public PamphletForm()
            InitializeComponent();
        }
        private bool PhoneNumberIsCorrect()
            Regex phoneNumberRegex = new Regex("\\+\\d{11,11}");
            return phoneNumberRegex.IsMatch(phoneNumberTextBox.Text);
        }
        private bool AddressIsCorrect()
            return addressTextBox.Text.Length > 0;
        }
        private bool NameIsCorrect()
            return nameTextBox.Text.Length > 0;
        }
        private bool ContactPersonIsCorrect()
            return contactPersonTextBox.Text.Length > 0;
        }
        private bool TitleIsCorrect()
            return titleTextBox.Text.Length > 0;
        private bool DateIsCorrect()
            return DateTime.TryParse(dateTextBox.Text, out );
        }
```

```
private void NameTextBox Leave(object sender, EventArgs e)
    if (NameIsCorrect())
        errorProvider.SetError(nameTextBox, String.Empty);
    else
        errorProvider.SetError(nameTextBox, "Name is incorrect.");
    EnablePanel();
}
private void AddressTextBox Leave(object sender, EventArgs e)
    if (AddressIsCorrect())
        errorProvider.SetError(addressTextBox, String.Empty);
    else
        errorProvider.SetError(addressTextBox, "Address is incorrect.");
    EnablePanel();
}
private void TitleTextBox Leave(object sender, EventArgs e)
    if (TitleIsCorrect())
        errorProvider.SetError(titleTextBox, String.Empty);
    else
        errorProvider.SetError(titleTextBox, "Title is incorrect.");
    EnablePanel();
}
private void ContactPersonTextBox Leave(object sender, EventArgs e)
    if (ContactPersonIsCorrect())
        errorProvider.SetError(contactPersonTextBox, String.Empty);
    else
        errorProvider.SetError(contactPersonTextBox, "Contact person info is incorrect.");
    EnablePanel();
}
private void PhoneNumberTextBox Leave(object sender, EventArgs e)
    if (PhoneNumberIsCorrect())
        errorProvider.SetError(phoneNumberTextBox, String.Empty);
    else
        errorProvider.SetError(phoneNumberTextBox, "Phone number is incorrect.");
```

```
EnablePanel();
       }
        private void DateTextBox Leave(object sender, EventArgs e)
        {
            dateTextBox.Text = DateTime.Now.ToShortDateString();
            EnablePanel();
        }
        private void ColorButton Click(object sender, EventArgs e)
        {
            if (colorDialog.ShowDialog() == DialogResult.OK)
                this.richTextBox.ForeColor = colorDialog.Color;
       }
        private void OpenButton Click(object sender, EventArgs e)
            openFileDialog.Filter = "Image Files(*.BMP;*JPG;*.GIF)|*.BMP;*JPG;*.GIF|All files(*.*)|
*.*";
            if (openFileDialog.ShowDialog() == DialogResult.OK)
                fileName = openFileDialog.FileName;
                image = Image.FromFile(fileName);
       }
        private void FontButton Click(object sender, EventArgs e)
            if (fontDialog.ShowDialog() == DialogResult.OK)
                this.richTextBox.Font = fontDialog.Font;
        }
        private void ExitButton Click(object sender, EventArgs e)
            this.Close();
        protected void PrintDocument1 PrintPage(object sender, PrintPageEventArgs e)
            e.Graphics.DrawImage(image, new Point(0, richTextBox.Font.Height));
        }
        private void PrintButton Click(object sender, EventArgs e)
            PrintPreviewDialog printDialog = new PrintPreviewDialog();
            PrintDocument printDocument = new PrintDocument();
            printDialog.Document = printDocument;
```

```
printDocument.PrintPage += PrintDocument PrintPage;
            DialogResult result = printDialog.ShowDialog();
            if (result == DialogResult.OK)
            {
                printDocument.Print();
                printDialog.Close();
            }
        }
        private void PrintDocument PrintPage(object sender, PrintPageEventArgs e)
            e.Graphics.DrawString(richTextBox.Text, richTextBox.Font, new
SolidBrush(richTextBox.ForeColor), new Point(0, 0));
            if (openFileDialog.FileName != "openFileDialog")
                e.Graphics.DrawImage(image, new Point(0, richTextBox.Font.Height + 30));
            else
                e.Graphics.DrawImage(Image.FromFile("screevvfa74633nshot.png"), new Point(0,
richTextBox.Font.Height + 30));
        }
        private void EnablePanel()
            if (NameIsCorrect()
                && AddressIsCorrect()
                && TitleIsCorrect()
                && ContactPersonIsCorrect()
                && PhoneNumberIsCorrect()
                && DateIsCorrect())
            {
                panel.Enabled = true;
            }
        }
        void PrintPageHandler(object sender, PrintPageEventArgs e)
            e.Graphics.DrawString(richTextBox.Text, richTextBox.Font, new
SolidBrush(richTextBox.ForeColor), new Point(0, 0));
    }
}
```

5

```
using System;
using System.Windows.Forms;
namespace Lab 3
{
   public partial class MainForm : Form
       public int childrenCount = 0;
        public MainForm()
        {
            InitializeComponent();
        private void MainForm Load(object sender, EventArgs e)
            toolStripStatusLabel1.Text = DateTime.Now.ToLongDateString();
        }
        private void WindowMember Click(object sender, EventArgs e)
            ToolStripItemCollection items = windowToolStripMenuItem.DropDownItems;
            foreach (ToolStripItem i in items)
                if (i.Equals(sender))
                    foreach (InheritedPamphletForm f in MdiChildren)
                        if (sender.Equals(f.stripItem))
                            f.Activate();
       }
        private void CreateProduct Click(object sender, EventArgs e)
            CreateChildForm("Name of the product", " Name of the product");
        }
        private void CreateHotel Click(object sender, EventArgs e)
            CreateChildForm("Name of the hotel", " Name of the hotel");
        }
        private void OrganizationCreate Click(object sender, EventArgs e)
            CreateChildForm("Name of the organisation", " Name of the organisation");
        }
        private void CreateChildForm(string formName, string windowTitle)
            ToolStripMenuItem newItem = new ToolStripMenuItem(Convert.ToString(++childrenCount) +
```

```
windowTitle);
            Form f = new InheritedPamphletForm(formName, windowToolStripMenuItem, newItem, this)
                MdiParent = this
            };
            f.Show();
            windowToolStripMenuItem.DropDownItems.Add(newItem);
            newItem.Click += WindowMember_Click;
       }
       private void Cascad_Click(object sender, EventArgs e)
            ShowAllWindows();
            this.LayoutMdi(MdiLayout.Cascade);
       }
       private void Mosaic Click(object sender, EventArgs e)
            ShowAllWindows();
            LayoutMdi(MdiLayout.TileVertical);
       }
       private void ShowAllWindows()
            foreach (var f in MdiChildren)
            {
                if (f.WindowState == FormWindowState.Minimized)
                    f.WindowState = FormWindowState.Normal;
                    f.Show();
            }
       }
       private void AlignLeft_Click(object sender, EventArgs e)
            AlignRichTextBox(HorizontalAlignment.Left);
        }
        private void AlignCenter_Click(object sender, EventArgs e)
            AlignRichTextBox(HorizontalAlignment.Center);
        }
        private void AlignRight_Click(object sender, EventArgs e)
```

МDІ форма 7

```
{
            AlignRichTextBox(HorizontalAlignment.Right);
        }
        private void AlignRichTextBox(HorizontalAlignment alignment)
            Form activeChild = this.ActiveMdiChild;
            if (activeChild != null)
                try
                {
                    RichTextBox box = (RichTextBox)activeChild.ActiveControl;
                    if (box != null)
                        box.SelectionAlignment = alignment;
                }
                catch
                    MessageBox.Show("You need to select a RichTextBox.");
            }
        }
        private void Timer_Tick(object sender, EventArgs e)
            toolStripStatusLabel2.Text = DateTime.Now.ToLongTimeString();
    }
}
```

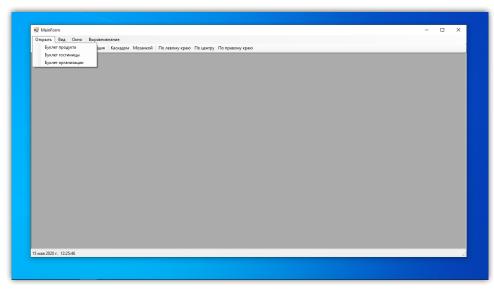


Рис. 1. Пункт меню «Открыть».

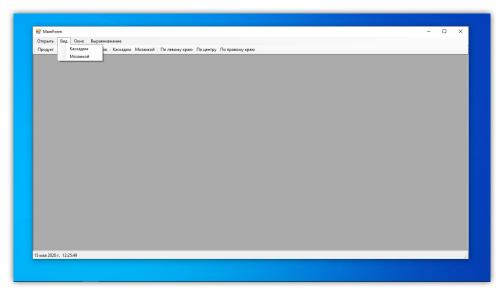


Рис. 2. Пункт меню «Вид».

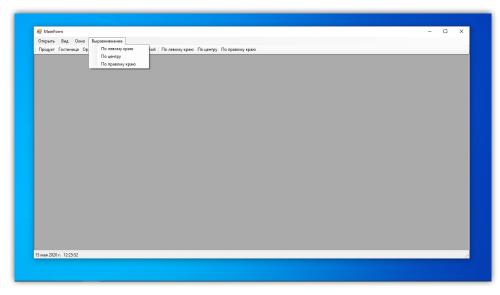


Рис. 3. Пункт меню «Выравнивание».

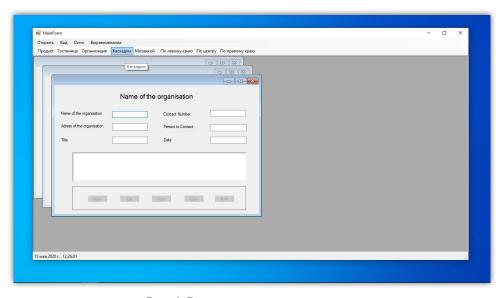


Рис. 4. Расположение окон каскадом.

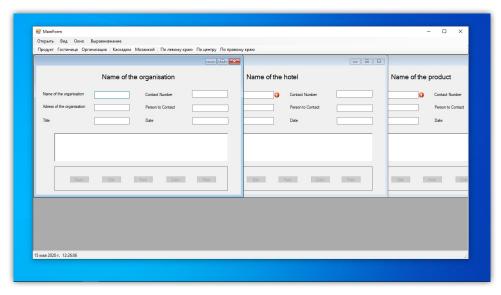


Рис. 5. Расположение окон мозаикой.

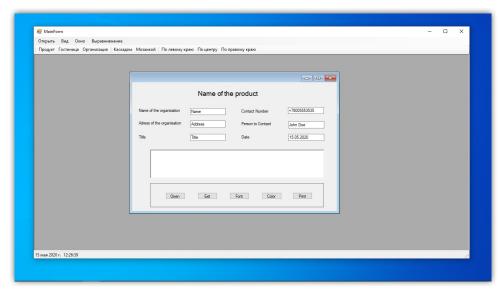


Рис. 6. Заполненная форма продукта.

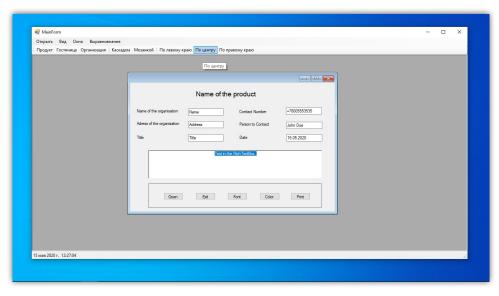


Рис. 7. Выравнивание теста по центру.

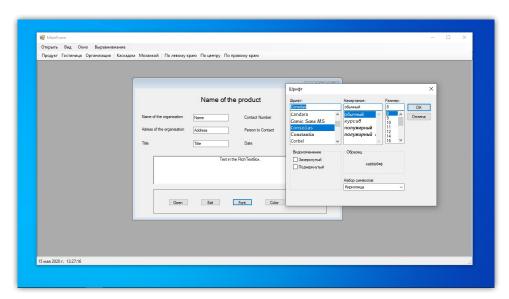


Рис. 8. Диалог выбора шрифта.

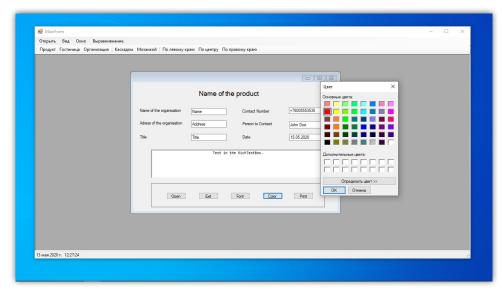


Рис. 9. Диалог выбора цвета.