

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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```
using System;
using System.Drawing;
using System.Drawing.Printing;
using System.Text.RegularExpressions;
using System.Windows.Forms;

namespace Lab_3
{
    public partial class Form1 : Form
    {
        private String fileName;
        private bool[] checks = new bool[6];
        protected Image image;
        public String documentContents;
        Regex regex = new Regex("[0-9]{2}.[0-9]{2}.[0-9]{4}");
        public Form1()
        {
            InitializeComponent();
            for (int i = 0; i < checks.Length; i++)
            {
                checks[i] = false;
            }
        }

        private void TxtName_Leave(object sender, EventArgs e)
        {
            if (txtName.Text.Length > 0)
            {
                errorProvider1.SetError(txtName, "");
                checks[0] = true;
            }
            else
            {
                errorProvider1.SetError(txtName, "error!");
            }
            enablePanel();
        }

        private void TxtAdress_Leave(object sender, EventArgs e)
        {
            if (txtAdress.Text.Length > 0)
            {
                errorProvider1.SetError(txtAdress, "");
                checks[1] = true;
            }
            else
            {
                errorProvider1.SetError(txtAdress, "error!");
            }
        }
    }
}
```

```
    }
    enablePanel();
}

private void TxtTitle_Leave(object sender, EventArgs e)
{
    if (txtTitle.Text.Length > 0)
    {
        errorProvider1.SetError(txtTitle, "");
        checks[2] = true;
    }
    else
    {
        errorProvider1.SetError(txtTitle, "error!");
    }
    enablePanel();
}

private void TxtPerson_Leave(object sender, EventArgs e)
{
    if (txtPerson.Text.Length > 0)
    {
        errorProvider1.SetError(txtPerson, "");
        checks[4] = true;
    }
    else
    {
        errorProvider1.SetError(txtPerson, "error!");
    }
    enablePanel();
}

private void TxtPhone_Leave(object sender, EventArgs e)
{
    int Num;
    if (int.TryParse(txtNumber.Text, out Num))
    {
        errorProvider1.SetError(txtNumber, "");
        checks[3] = true;
    }
    else errorProvider1.SetError(txtNumber, "error!");
    enablePanel();
}

private void TxtDate_Leave(object sender, EventArgs e)
{
    DateTime date = new DateTime();
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        if (DateTime.TryParse(txtDate.Text, out date))
        {
            errorProvider1.SetError(txtDate, "");
            checks[5] = true;
        }
        else
        {
            txtDate.Text = DateTime.Now.ToShortDateString();
            checks[5] = true;
        }
        string str = "";
        for (int i = 0; i < checks.Length; i++)
        {
            str += i.ToString() + checks[i].ToString() + ", ";
        }
        enablePanel();
    }

    private void btnColour_Click(object sender, EventArgs e)
    {
        if (colorDialog1.ShowDialog() == DialogResult.OK) this.richTextBox1.ForeColor =
colorDialog1.Color;
    }

    private void btnOpen_Click(object sender, EventArgs e)
    {
        openFileDialog1.Filter = "Image Files(*.BMP;*.JPG;*.GIF)|*.BMP;*.JPG;*.GIF|All files(*.*)|
*.*";
        if (openFileDialog1.ShowDialog() == DialogResult.OK)
        {
            fileName = openFileDialog1.FileName;
            image = Image.FromFile(fileName);
        }
    }

    private void btnFont_Click(object sender, EventArgs e)
    {
        if (fontDialog1.ShowDialog() == DialogResult.OK) this.richTextBox1.Font =
fontDialog1.Font;
    }

    private void btnExit_Click(object sender, EventArgs e)
    {
        this.Close();
    }

    protected void printDocument1_PrintPage(object sender,
System.Drawing.Printing.PrintPageEventArgs e)

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    {
        e.Graphics.DrawImage(image, new Point(0, richTextBox1.Font.Height));
    }

    private void btnPrint_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(richTextBox1.Text, richTextBox1.Font, new
SolidBrush(richTextBox1.ForeColor), new Point(0, 0));
        if (openFileDialog1.FileName != "openFileDialog1")
        {
            e.Graphics.DrawImage(image, new Point(0, richTextBox1.Font.Height + 30));
        }
        else
        {
            e.Graphics.DrawImage(Image.FromFile("screenvfa74633nshot.png"), new Point(0,
richTextBox1.Font.Height + 30));
        }
    }

    private void enablePanel()
    {
        int ch = 0;
        for (int i = 0; i < checks.Length; i++)
            if (checks[i] == true) ch++;
        if (ch == checks.Length) panel1.Enabled = true;
    }

    void PrintPageHandler(object sender, PrintPageEventArgs e)
    {
        e.Graphics.DrawString(richTextBox1.Text, richTextBox1.Font, new
SolidBrush(richTextBox1.ForeColor), new Point(0, 0));
    }
}
}

```

```
using System;
using System.Windows.Forms;

namespace Lab_3
{
    public partial class Form2 : Form
    {
        public int counter = 0;
        Form3 f3;
        public Form2()
        {
            InitializeComponent();

            private void WindowMember_Click(object sender, EventArgs e)
            {
                ToolStripItemCollection itemCol = окноToolStripMenuItem.DropDownItems;
                foreach (ToolStripItem item in itemCol)
                {
                    if (item.Equals(sender))
                    {
                        foreach (Form3 f in MdiChildren)
                        {
                            if (sender.Equals(f.stripItem))
                            {
                                f.Activate();
                            }
                        }
                    }
                }
            }

            private void createProduct_Click(object sender, EventArgs e)
            {
                Form f1;
                counter++;
                ToolStripMenuItem newItem = new ToolStripMenuItem(Convert.ToString(counter) + " Name of
the product");
                f1 = new Form3("Name of the product", окноToolStripMenuItem, newItem, this);
                f1.MdiParent = this;
                f1.Show();
                окноToolStripMenuItem.DropDownItems.Add(newItem);
                newItem.Click += WindowMember_Click;
            }

            private void Form2_Load(object sender, EventArgs e)
            {
                toolStripStatusLabel1.Text = DateTime.Now.ToLongDateString();
            }
        }
    }
}
```

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    }

    private void createHotel_Click(object sender, EventArgs e)
    {
        counter++;
        ToolStripMenuItem newItem = new ToolStripMenuItem(Convert.ToString(counter) + " Name of
the hostel");
        f3 = new Form3("Name of the hotel", окноToolStripMenuItem, newItem, this);
        f3.MdiParent = this;
        f3.Show();
        окноToolStripMenuItem.DropDownItems.Add(newItem);
        newItem.Click += WindowMember_Click;
    }

    private void organizationCreate_Click(object sender, EventArgs e)
    {
        counter++;
        ToolStripMenuItem newItem = new ToolStripMenuItem(Convert.ToString(counter) + " Name of
the organisation");
        f3 = new Form3("Name of the organisation", окноToolStripMenuItem, newItem, this);
        f3.MdiParent = this;
        f3.Show();
        окноToolStripMenuItem.DropDownItems.Add(newItem);
        newItem.Click += WindowMember_Click;
    }

    private void cascad_Click(object sender, EventArgs e)
    {
        foreach (var f in MdiChildren)
        {
            if (f.WindowState == FormWindowState.Minimized)
            {
                f.WindowState = FormWindowState.Normal;
                f.Show();
            }
        }
        this.LayoutMdi(MdiLayout.Cascade);
    }

    private void mosaic_Click(object sender, EventArgs e)
    {
        foreach (var f in MdiChildren)
        {
            if (f.WindowState == FormWindowState.Minimized)
```

```
        {
            f.WindowState = FormWindowState.Normal;
            f.Show();
        }

    }
    LayoutMdi(MdiLayout.TileVertical);
}

private void leftEdge_Click(object sender, EventArgs e)
{
    Form activeChild = this.ActiveMdiChild;
    if (activeChild != null)
    {
        try
        {
            RichTextBox theBox = (RichTextBox)activeChild.ActiveControl;
            if (theBox != null)
            {
                theBox.SelectionAlignment = HorizontalAlignment.Left;
            }
        }
        catch
        {
            MessageBox.Show("You need to select a RichTextBox.");
        }
    }
}

private void center_Click(object sender, EventArgs e)
{
    Form activeChild = this.ActiveMdiChild;
    if (activeChild != null)
    {
        try
        {
            RichTextBox theBox = (RichTextBox)activeChild.ActiveControl;
            if (theBox != null)
            {
                theBox.SelectionAlignment = HorizontalAlignment.Center;
            }
        }
        catch
        {
            MessageBox.Show("You need to select a RichTextBox.");
        }
    }
}
```



```
    }

    private void rightEdge_Click(object sender, EventArgs e)
    {
        Form activeChild = this.ActiveMdiChild;
        if (activeChild != null)
        {
            try
            {
                RichTextBox theBox = (RichTextBox)activeChild.ActiveControl;
                if (theBox != null)
                {
                    theBox.SelectionAlignment = HorizontalAlignment.Right;
                }
            }
            catch
            {
                MessageBox.Show("You need to select a RichTextBox.");
            }
        }
    }

    private void timer1_Tick(object sender, EventArgs e)
    {
        toolStripStatusLabel2.Text = DateTime.Now.ToLongTimeString();
    }
}
```

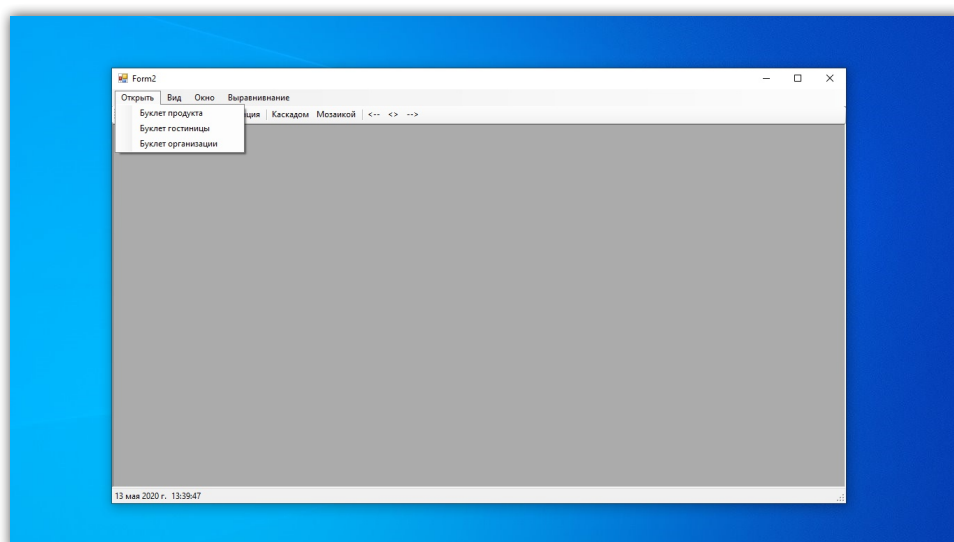


Рис. 1. Пункт меню «Открыть».

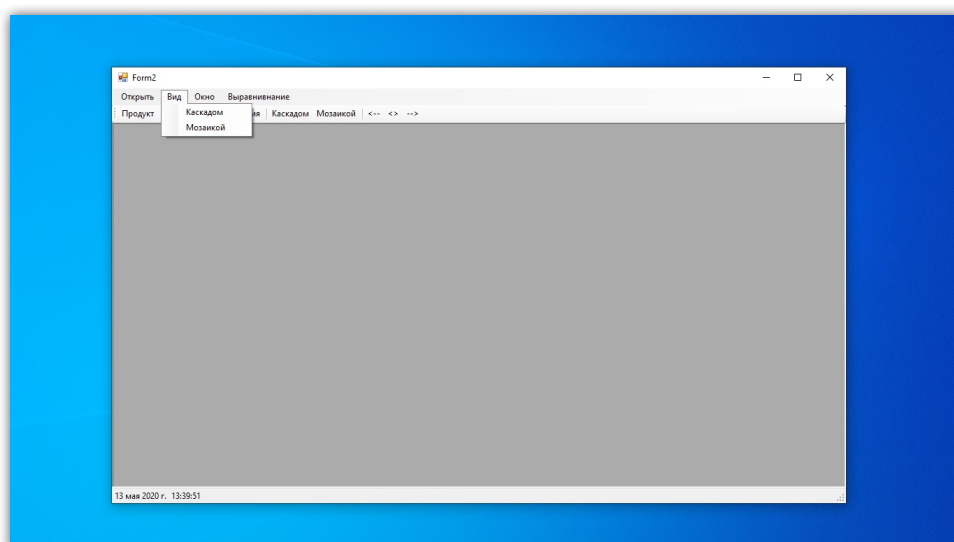


Рис. 2. Пункт меню «Вид».

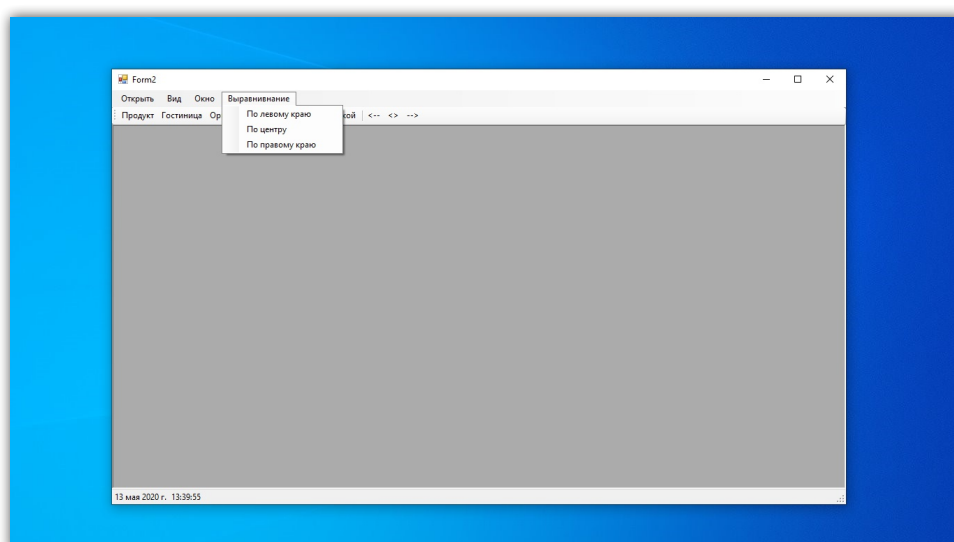


Рис. 3. Пункт меню «Выравнивание».

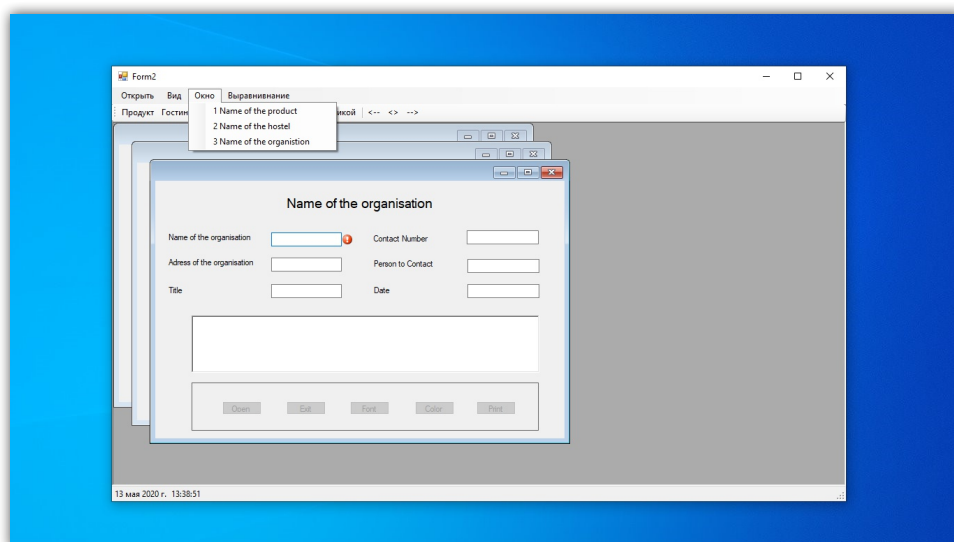


Рис. 4. Расположение окон каскадом.

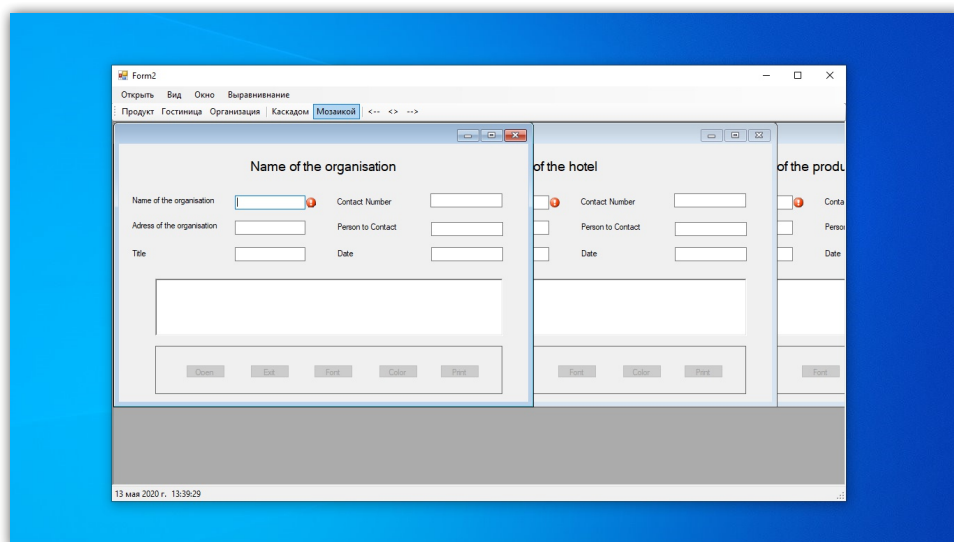


Рис. 5. Расположение окон мозаикой