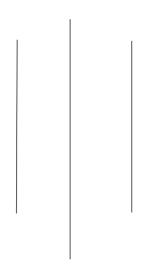


Maitidevi, Kathmandu



Lab Report of Dotnet Technology

Submitted by: Shital kumar Awal

BCA 5th

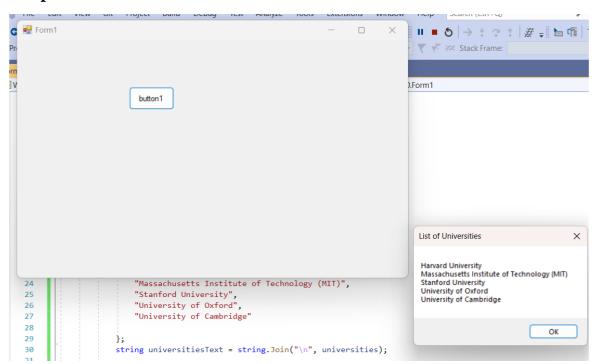
Submitted to: Mangal Pradhan

LAB 1-Write a win form application to show name of 5 different university maintained on list to a message box.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApp10
{
  public partial class Form1: Form
    public Form1()
    {
       InitializeComponent();
     }
    private void button1_Click(object sender, EventArgs e)
    {
       string[] universities = {
         "Harvard University",
         "Massachusetts Institute of Technology (MIT)",
         "Stanford University",
         "University of Oxford",
         "University of Cambridge"
```

```
};
string universitiesText = string.Join("\n", universities);

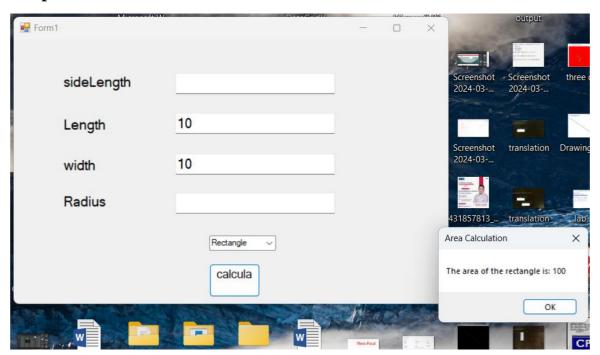
// Display the list of universities in a message box
MessageBox.Show(universitiesText, "List of Universities");
}
```



LAB 2- Write a program to display the use of case when statement to display area of different types of shape

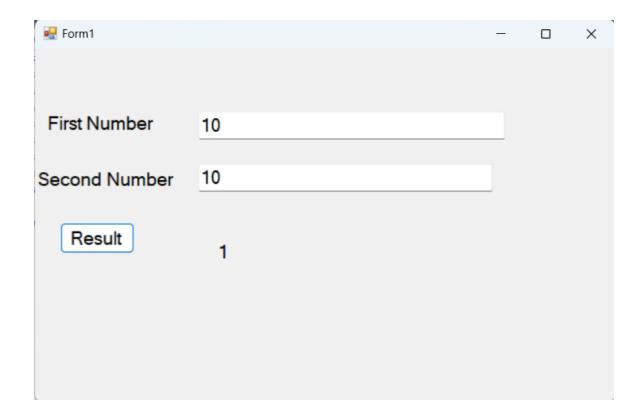
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApp16
{
  public partial class Form1 : Form
    public Form1()
      InitializeComponent();
    }
    private void Form1_Load(object sender, EventArgs e)
    {
      // Populate the dropdown list with shapes
      shapeComboBox.Items.Add("Square");
      shapeComboBox.Items.Add("Rectangle");
      shapeComboBox.Items.Add("Circle");
      shapeComboBox.SelectedIndex = 0; // Select the first item by default
```

```
}
    private void calculateButton_Click(object sender, EventArgs e)
    {
       // Get the selected shape from the dropdown list
       string selectedShape = shapeComboBox.SelectedItem.ToString();
       // Calculate area based on the selected shape
       double area = 0;
       switch (selectedShape)
         case "Square":
           double sideLength = Convert.ToDouble(sideLengthTextBox.Text);
           area = sideLength * sideLength;
           break;
         case "Rectangle":
           double length = Convert.ToDouble(lengthTextBox.Text);
           double width = Convert.ToDouble(widthTextBox.Text);
           area = length * width;
           break;
         case "Circle":
           double radius = Convert.ToDouble(radiusTextBox.Text);
           area = Math.PI * radius * radius;
           break;
       }
       // Display the calculated area
       MessageBox.Show($"The area of the {selectedShape.ToLower()} is: {area}",
"Area Calculation");
    }
```



LAB 3- Write a program to create a custom exception class and handle it using different level of try catch statement.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApp13
{
  public partial class Form1 : Form
    public Form1()
       InitializeComponent();
    }
    private void button1_Click(object sender, EventArgs e)
    {
       try
         float num1 = float.Parse(textBox1.Text);
         float num2 = float.Parse(textBox2.Text);
```



LAB 4 - Write a program to insert, update and delete a record of student into a database in a Windows Form Based Application.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApp6
{
  public partial class Form1 : Form
    public Form1()
       InitializeComponent();
     }
    private void button1_Click(object sender, EventArgs e)
     {
       SqlConnection con = new SqlConnection("Data Source=LAPTOP-
I6P5P0C0;Initial Catalog=Student;Integrated Security=True;Connect
```

```
Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=
ReadWrite; MultiSubnetFailover=False");
                   con.Open();
                   SqlCommand cmd = new SqlCommand("insert into std values
(@ID,@Name,@Age)", con);
                   cmd.Parameters.AddWithValue("@ID", int.Parse(textBox1.Text));
                   cmd.Parameters.AddWithValue("@Name", textBox2.Text);
                   cmd.Parameters.AddWithValue("@Age",
double.Parse(textBox1.Text));
                   cmd.ExecuteNonQuery();
                   con.Close();
                   MessageBox.Show("Successfully Saved");
             }
             private void button2_Click(object sender, EventArgs e)
                   SqlConnection con = new SqlConnection("Data Source=LAPTOP-
I6P5P0C0;Initial Catalog=Student;Integrated Security=True;Connect
Timeout = 30; Encrypt = False; Trust Server Certificate = False; Application Intent = 1000 and 10000 and 1000 and 1000 and 1000 and 1000 and 1000 and 1000 and 1000
ReadWrite; MultiSubnetFailover=False");
                   con.Open();
                   SqlCommand cmd = new SqlCommand("Update std set
Name=@Name,Age=@Age where ID =@ID", con);
                   cmd.Parameters.AddWithValue("@ID", int.Parse(textBox1.Text));
                   cmd.Parameters.AddWithValue("@Name", textBox2.Text);
                   cmd.Parameters.AddWithValue("@Age",
double.Parse(textBox1.Text));
                   cmd.ExecuteNonQuery();
```

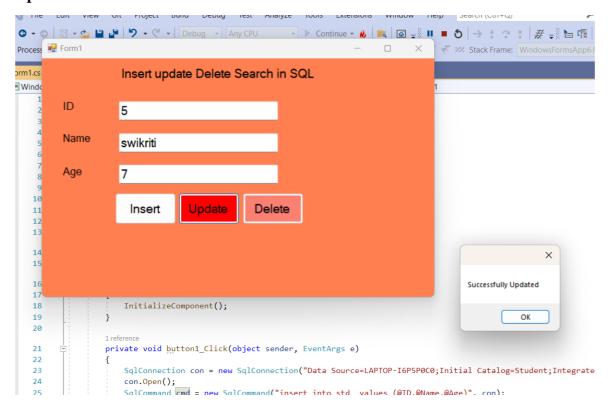
```
con.Close();
      MessageBox.Show("Successfully Updated");
    }
    private void button3_Click(object sender, EventArgs e)
    {
      SqlConnection con = new SqlConnection("Data Source=LAPTOP-
I6P5P0C0;Initial Catalog=Student;Integrated Security=True;Connect
Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=
ReadWrite;MultiSubnetFailover=False");
      con.Open();
      SqlCommand cmd = new SqlCommand("Delete std where ID
=@ID", con);
      cmd.Parameters.AddWithValue("@ID", int.Parse(textBox1.Text));
      cmd.ExecuteNonQuery();
      con.Close();
      MessageBox.Show("Successfully Deleted");
    }
  }
}
```

OUTPUT

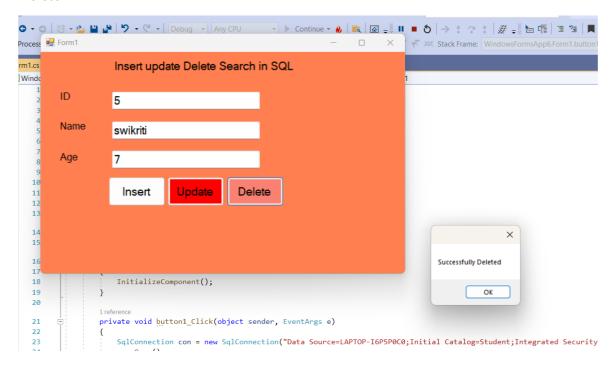
Insert



Update



Delete



LAB 5- Write a program to show list of Employee in Web form application and filter it using employee name, contact no and email address

Index.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="index.aspx.cs"
Inherits="WebApplication4.index" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<div> <asp:GridView ID="gdEmpDetail" runat="server">
</asp:GridView>
</div>
</form>
</body>
</html>
Index.aspx
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Data;
using System.Drawing;
```

```
namespace WebApplication4
{
  public partial class index : System.Web.UI.Page
    private object adap;
    protected void Page_Load(object sender, EventArgs e)
       WebApplication4();
    }
    private void WebApplication4()
       //connection (ADO.NET) ASP and SQL
      //connection
       //By Query or By Procedures
       //Connection CLose
       try
       {
         SqlConnection con = new SqlConnection("Data Source=LAPTOP-I6P5P0C0;
Initial catalog=Employee; integrated security =true;");
         con.Open();
         SqlCommand cmd = new SqlCommand("select * from emp",con);
         SqlDataAdapter adap = new SqlDataAdapter(cmd);
         DataSet ds = new DataSet();
         adap.Fill (ds);
         con.Close();
         if (ds.Tables.Count>0)
         {
```

```
if (ds.Tables[0].Rows.Count>0)
{
        gdEmpDetail.DataSource = ds.Tables[0];
        gdEmpDetail.DataBind();
     }
}

catch (Exception ex)
{
     throw;
}
}
```

