

Lab Task # 2

Visual Programming

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Class:BSCS-6(AFTERNOON)

ROLL NO: 2281

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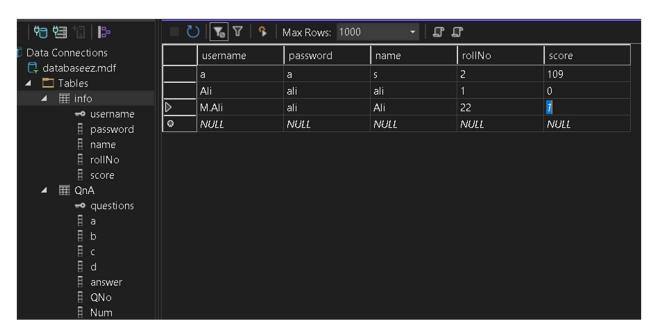
QUIZ MANAGEMENT SYSTEM IN .NET WINDOWS FORMS

Statement:

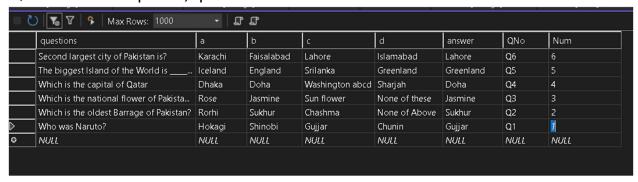
Create a Login Form for Each user and Also register it .Develop a GUI Program where you have select random record from database and display it on the GUI. This allow user to select the one option from the given option if the selected option is the right answer then move to next question and each user can answer at least 5 questions. And If the User pick the wrong Question a pop up shows its wrong and allow him to pick again. You have to Display the score of the User. Also add the timer.

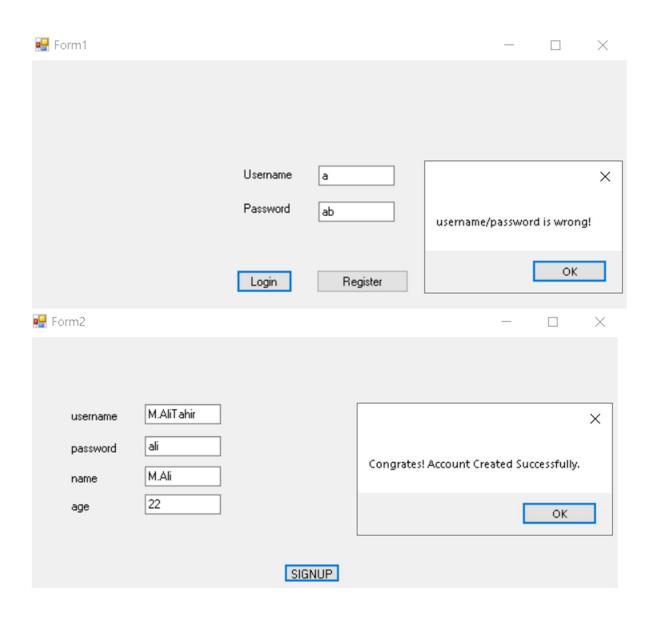
DataBase ScreenShots:

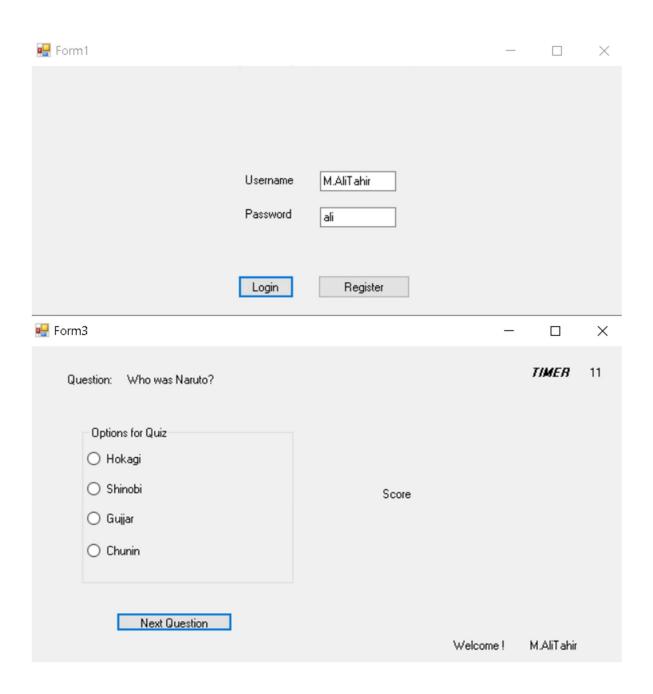
Account Details:

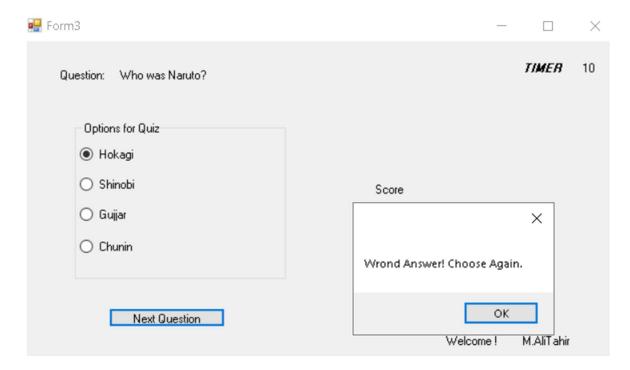


Questions with options, question number and correct answer.

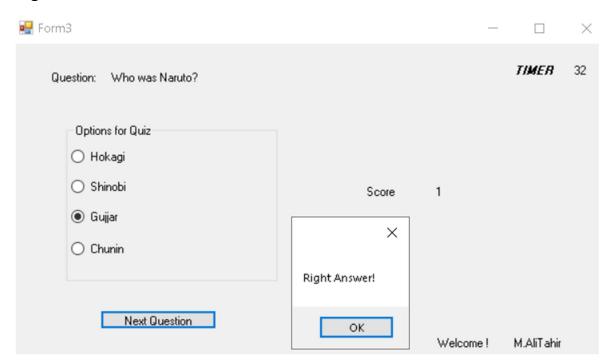


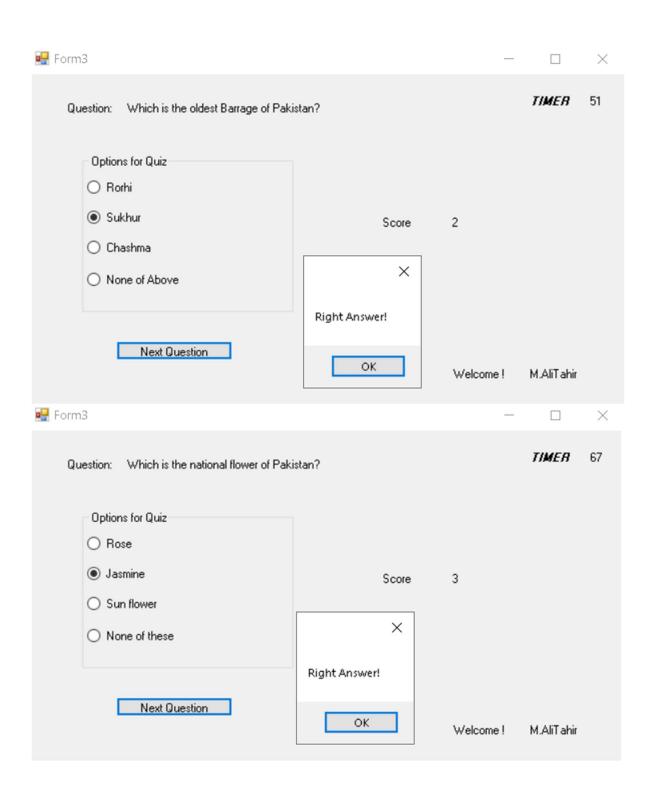


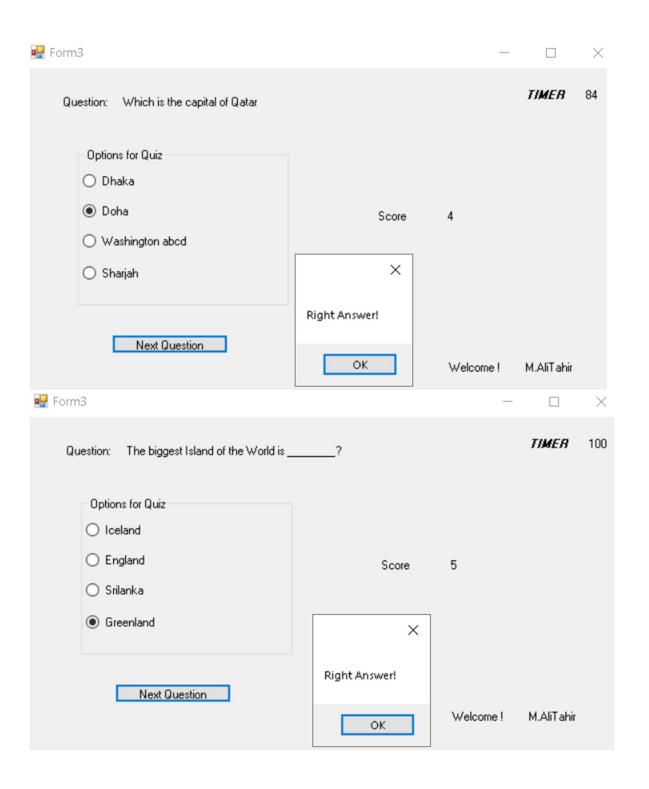




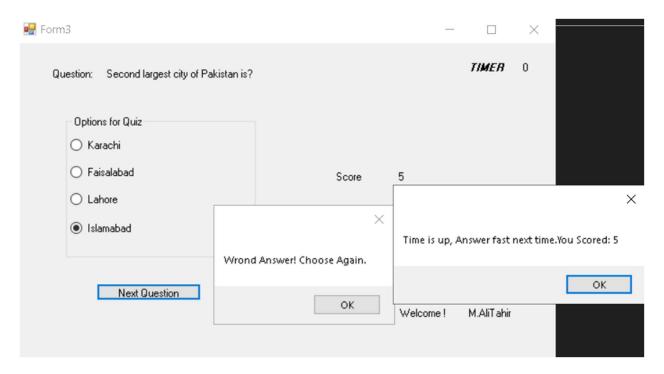
Right Answer Hence Score ++.



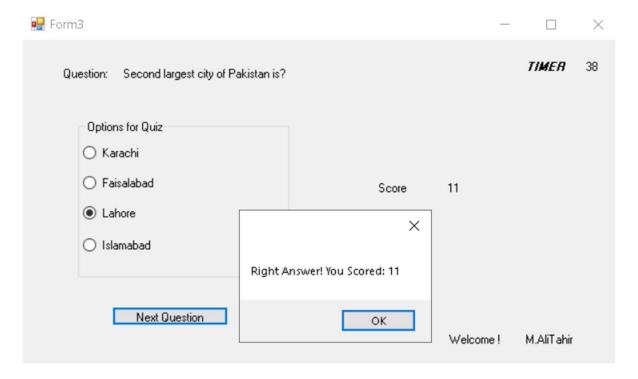




Timeup Scenario, Message appears along side with total score and then logout the session.



Last Question: displays total score and then logout.



CODE:

FORM1.CS (LOGIN):

```
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 WindowsFormsApp420
  public partial class Form1 : Form
    public static string username;
    public SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\ok\Documents\databaseez.mdf;Integrat
ed Security=True;Connect Timeout=30");
    public Form1()
      InitializeComponent();
      Connection();
    }
    public SqlConnection Connection()
      if (con.State == ConnectionState.Open)
        con.Close();
      con.Open();
      return con;
    private void button1_Click(object sender, EventArgs e)
      Connection();
```

```
SqlCommand cmd = new SqlCommand("select * from info where username = "" + textBox1.Text +
"' and password = '" + textBox2.Text + "'", con);
      SqlDataReader s = cmd.ExecuteReader();
      if (s.Read())
      {
        username = textBox1.Text;
        Form3 F3 = new Form3();
        F3.ShowDialog();
      }
      else
      {
        MessageBox.Show("username/password is wrong!");
      }
      textBox1.Clear();
      textBox2.Clear();
    }
    private void button2_Click(object sender, EventArgs e)
      Form2 F2 = new Form2();
      F2.ShowDialog();
    private void Form1_Load(object sender, EventArgs e)
    }
 }
FORM2.CS (Registration):
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 WindowsFormsApp420
{
```

Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\ok\Documents\databaseez.mdf;Integrat

public partial class Form2: Form

ed Security=True;Connect Timeout=30");

public Form2()

{

public SqlConnection con = new SqlConnection(@"Data

```
InitializeComponent();
      Connection();
    public SqlConnection Connection()
      if (con.State == ConnectionState.Open)
        con.Close();
      con.Open();
      return con;
    private void button1_Click(object sender, EventArgs e)
      Connection();
      SqlCommand cmd = new SqlCommand("INSERT INTO info VALUES ("" + textBox1.Text + "',"" +
textBox2.Text + "'," + textBox3.Text + "'," + textBox4.Text + "',0)", con);
      int a = cmd.ExecuteNonQuery();
      MessageBox.Show("Congrates! Account Created Successfully.");
      this.Close();
    }
    private void Form2_Load(object sender, EventArgs e)
  }
FORM3.CS (Quiz):
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 WindowsFormsApp420
  public partial class Form3: Form
    private int counter;
    public int no=1;
    public SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\ok\Documents\databaseez.mdf;Integrat
ed Security=True;Connect Timeout=30");
```

```
public Form3()
  InitializeComponent();
  Connection();
  int n = qn(no);
  timer.Start();
}
public SqlConnection Connection()
  if (con.State == ConnectionState.Open)
    con.Close();
  con.Open();
  return con;
}
private void Form3_Load(object sender, EventArgs e)
  label4.Text = Form1.username;
private void timer_Tick(object sender, EventArgs e)
  counter++;
  lab.Text = counter.ToString();
  if (counter == 120)
    lab.Text = "0";
    timer.Stop();
    MessageBox.Show("Time is up, Answer fast next time.You Scored: " + label3.Text);
    this.Close();
    Form1 F1 = new Form1();
    F1.ShowDialog();
 }
public int marks;
public int markz;
int sst(int markz)
  String qry0 = "update info SET score = "" + markz + "" where username = "" + label4.Text + """;
  SqlCommand cmd0 = new SqlCommand(qry0, con);
  Connection();
  int st = cmd0.ExecuteNonQuery();
  return st;
int mrk(int marks)
  Connection();
```

```
SqlCommand cmd = new SqlCommand("SELECT score from info where username="" + label4.Text
+ "", con);
      SqlDataReader s = cmd.ExecuteReader();
      while (s.Read())
        marks = Convert.ToInt32(s.GetValue(0).ToString());
        markz = marks;
      }
      return markz;
    int qn(int no)
      Connection();
      SqlCommand cmd = new SqlCommand("SELECT questions from QnA where Num = "" + no + """,
con);
      SqlDataReader s = cmd.ExecuteReader();
      while (s.Read())
        label00.Text = s.GetValue(0).ToString();
      }
      Connection();
      SqlCommand cmd1 = new SqlCommand("SELECT a,b,c,d FROM QnA where questions="" +
label00.Text + "", con);
      SqlDataReader s1 = cmd1.ExecuteReader();
      while (s1.Read())
        radioButton1.Text = s1.GetValue(0).ToString();
        radioButton2.Text = s1.GetValue(1).ToString();
        radioButton3.Text = s1.GetValue(2).ToString();
        radioButton4.Text = s1.GetValue(3).ToString();
      }
      return no;
    private void button1_Click(object sender, EventArgs e)
      int markz = mrk(marks);
      Connection();
      SqlCommand cmd11 = new SqlCommand("SELECT answer from QnA where questions="" +
label00.Text + "", con);
      SqlDataReader s2 = cmd11.ExecuteReader();
      if (s2.Read())
      //while (s2.Read()) //Connection issues, solved with if
        if (radioButton1.Checked == true)
          if (radioButton1.Text == s2.GetValue(0).ToString())
            if (no == 6)
```

```
{
      no += 1;
      markz += 1;
      label3.Text = markz.ToString();
      int st = sst(markz);
      MessageBox.Show("Right Answer! You Scored: "+label3.Text);
      radioButton1.Checked = false;
      timer.Stop();
      Form1 F1 = new Form1();
      F1.ShowDialog();
      this.Close();
    }
    else
      no += 1;
      markz += 1;
      label3.Text = markz.ToString();
      int st = sst(markz);
      MessageBox.Show("Right Answer!");
      int n = qn(no);
      radioButton1.Checked = false;
    }
  }
  else
    MessageBox.Show("Wrond Answer! Choose Again.");
else if (radioButton2.Checked == true)
  if (radioButton2.Text == s2.GetValue(0).ToString())
    if (no == 6)
      no += 1;
      markz += 1;
      label3.Text = markz.ToString();
      int st = sst(markz);
      MessageBox.Show("Right Answer! You Scored: " + label3.Text);
      radioButton2.Checked = false;
      timer.Stop();
      Form1 F1 = new Form1();
      F1.ShowDialog();
      this.Close();
    }
    else
      no += 1;
```

```
markz += 1;
      label3.Text = markz.ToString();
      int st = sst(markz);
      MessageBox.Show("Right Answer!");
      int n = qn(no);
      radioButton2.Checked = false;
    }
  }
  else
    MessageBox.Show("Wrond Answer! Choose Again.");
}
else if (radioButton3.Checked == true)
  if (radioButton3.Text == s2.GetValue(0).ToString())
    if (no == 6)
      no += 1;
      markz += 1;
      label3.Text = markz.ToString();
      int st = sst(markz);
      MessageBox.Show("Right Answer! You Scored: " + label3.Text);
      radioButton3.Checked = false;
      timer.Stop();
      Form1 F1 = new Form1();
      F1.ShowDialog();
      this.Close();
    }
    else
      no += 1;
      markz += 1;
      label3.Text = markz.ToString();
      int st = sst(markz);
      MessageBox.Show("Right Answer!");
      int n = qn(no);
      radioButton3.Checked = false;
    }
  }
  else
    MessageBox.Show("Wrond Answer! Choose Again.");
else if (radioButton4.Checked == true)
```

```
if (radioButton4.Text == s2.GetValue(0).ToString())
           if (no == 6)
           {
             no += 1;
             markz += 1;
             label3.Text = markz.ToString();
             int st = sst(markz);
             MessageBox.Show("Right Answer! You Scored: " + label3.Text);
             radioButton4.Checked = false;
             timer.Stop();
             Form1 F1 = new Form1();
             F1.ShowDialog();
             this.Close();
           }
           else
             no += 1;
             markz += 1;
             label3.Text = markz.ToString();
             int st = sst(markz);
             MessageBox.Show("Right Answer!");
             int n = qn(no);
             radioButton4.Checked = false;
           }
         }
         else
           MessageBox.Show("Wrond Answer! Choose Again.");
       }
    }
  }
}
```