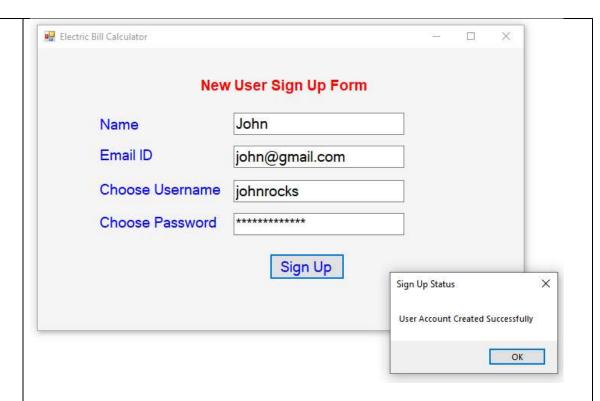
## C# and .NET Programming Lab EXERCISE - 9

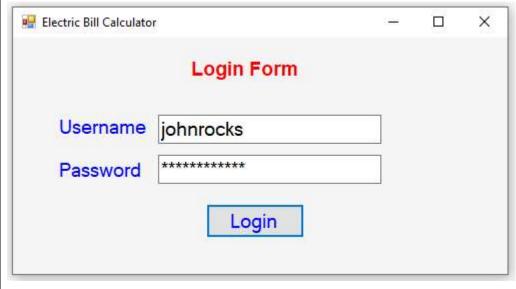
Exp. No : 9 16.10.2023		Desktop Application(GUI) using C# WinForm and Database Access						
,	Where, p = pri r = ann	ising C# Wi Final Amo	nForms. Simp unt = p (1+((r Final Amount nt	ole Interest /100)t)	design a simple Calculation for			_
		le	Simple Principle Amount(P): Interest Rate % (R): Fears (t):	10000 10 5 Find	Calculator  Simple Interest  5000  t: Rs. 15000			×
	with da "users" Databa name	itabase oper	rations as per ns such as nar sers	the follow	e User Sign Up ving GUI Desi username, pass	igns. Crea	ite a t	able called

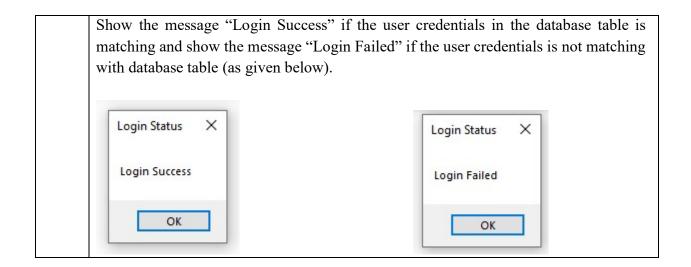


Store the user details in the table "users" upon pressing the "Sign Up" button and show the Message Box with a message "User Account Created Successfully".

## **Login Form**

Create another Form for Login verification as per the following design and read username and password. Check this username and password is correct by accessing the database table and show the appropriate message given below.





## **Sample Program for GUI Design to Refer:**

```
using System;
using System.Windows.Forms;
using System.Drawing;
namespace MyDesktopApp
{
    internal static class Program
        static void Main()
           Application.EnableVisualStyles();
           Application.Run(new MyForm());
    }
    public class MyForm : Form
        private Label l1, l2,title;
        private TextBox t1, t2;
        private Button btn;
        private Label result;
        public MyForm()
            this. Size = new Size(500, 300);
            this.Text = "Calculator";
            this.ForeColor = Color.Blue;
            this.Font = new Font("Arial", 12, FontStyle.Bold);
            title = new Label();
            title.Text = "Calculator";
```

```
title.ForeColor = Color.Red;
   title.Location = new Point(180, 20);
   l1 = new Label();
   l1.Text = "Number 1:";
   l1.Size = new Size(90,20);
   l1.Location = new Point(100,60);
   t1 = new TextBox();
   t1.Location = new Point(220,60);
   t1.Size = new Size(150,20);
   t1.ForeColor = Color.Blue;
   t1.Font = new Font("Arial", 12, FontStyle.Bold);
   l2 = new Label();
   12.Text = "Number 2:";
   l2.Size = new Size(90, 20);
   l2.Location = new Point(100,90);
   t2 = new TextBox();
   t2.Location = new Point(220, 90);
   t2.Size = new Size(150, 20);
   t2.ForeColor = Color.Blue;
   t2.Font = new Font("Arial", 12, FontStyle.Bold);
   btn = new Button();
   btn.Text = "Add";
   btn.Location = new Point(220, 130);
   btn.Size = new Size(80, 40);
   btn.Click += new System.EventHandler(btn_Click);
   result = new Label();
   result.Text = "";
   result.Location = new Point(220, 180);
   Controls.Add(title);
   Controls.Add(l1);
   Controls.Add(t1);
   Controls.Add(l2);
   Controls.Add(t2);
   Controls.Add(btn);
   Controls.Add(result);
public void btn_Click(object sender, EventArgs e)
    int n1 = int.Parse(t1.Text);
```

```
int n2 = int.Parse(t2.Text);
int sum = n1 + n2;
result.Text = "Sum: " + sum;
}
}

Calculator

Number 1: 5
Number 2: 6

Add
Sum: 11
```

## **Sample Database Access Program**

```
using MySql.Data.MySqlClient;
using System;
namespace ConsoleApp6
class Program
    {
        static void Main(string[] args)
            try
            {
                //database connection parameters
                string dbconstring =
"server=localhost;database=company;uid=root;pwd=\"\";";
                //create database connection and open
                MySqlConnection conn = new MySqlConnection(dbconstring);
                conn.Open();
                Console.WriteLine("Database Connected");
                Console.Write("Name: ");
                string name = Console.ReadLine();
                Console.Write("Emp.ID: ");
```

```
int empid = int.Parse(Console.ReadLine());
                 Console.Write("Email: ");
                 string email = Console.ReadLine();
                 Console.Write("Salary: ");
                 int salary = int.Parse(Console.ReadLine());
                 string sql = "insert into employees
values(@data1,@data2,@data3,@data4)";
                 MySqlCommand command = new MySqlCommand(sql,conn);
                 command.Parameters.AddWithValue("@data1", name);
                 command.Parameters.AddWithValue("@data2", empid);
                 command.Parameters.AddWithValue("@data3", email);
command.Parameters.AddWithValue("@data4", salary);
                 command.ExecuteNonQuery();
                 Console.WriteLine("Data Saved Successfully");
                 conn.Close();
             }
             catch(Exception ex)
                 Console.WriteLine(ex.Message);
             Console.ReadKey();
        }
    }
}
```