Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

**05**

LIST OF TASKS

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | Design a Windows Form Application in C# which have following functionalities:   * Login form * Sign Up * Order placement form |
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|  |  |
|  |  |
|  |  |

Submitted On:

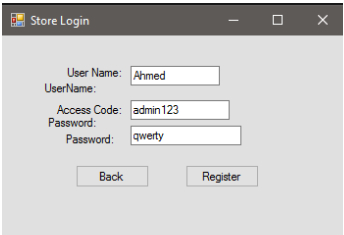
15th March 2019

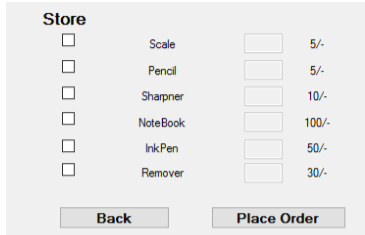
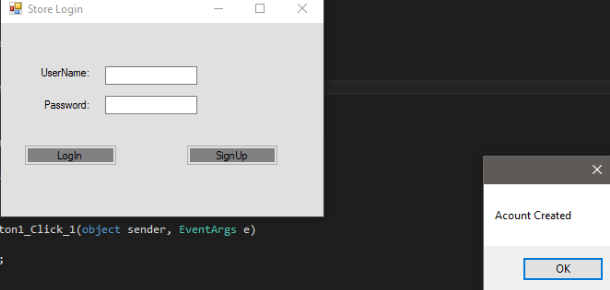
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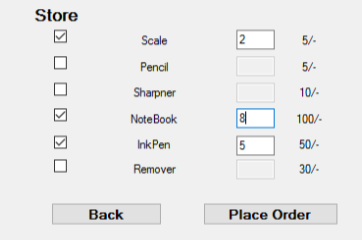
**Task No. 1:**

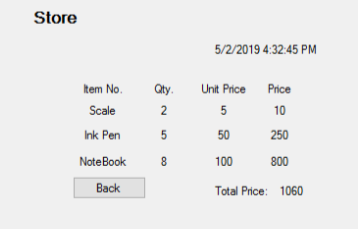
Draw State chart diagram of course enrolment.

**UI SnapShot:**









**Product DLL:**

namespace lab5dll

{

    public class Product

    {

        public static List<Tuple<string, string, string>> list = new List<Tuple<string, string, string>>();

        public static List<Tuple<string, int>> products = new List<Tuple<string, int>>();

        static int counter = 0,pcounter=0;static bool flag = false;

        public int totalprice = 0;

        public int PCounter()

        {

            pcounter++;

            return pcounter;

        }

        public int Counter()

        {

            counter++;

            return counter;

        }

        public int Add(string name,int price)

        {

            products.Add(new Tuple<string, int>(name,price));

            totalprice += price;

            return PCounter();

        }

        public int login(string user,string pass)

        {

            if (!flag)

            { list.Add(new Tuple<string, string, string>("Shaheen Akram ", "Admin", "310.4,320,348.8,336,352")); flag = true; }

            foreach (var element in list)

            {

                string a = element.Item3;

                string[] arr=a.Split(',');

                string data = "";

                for (int i = 0; i < arr.Length; i++)

                {

                    try

                    {

                        data += Convert.ToChar(Convert.ToInt32(arr[i].ToString())/3.2);

                    }

                    catch (Exception e) { }

                }

                if ((element.Item2 == user)&&(data==pass))

                    return 1;

            }

            return 0;

        }

        public int SignUp(string name,string user,string password)

        {

            if (!flag)

            { list.Add(new Tuple<string, string, string>(" Shaheen Akram", "Admin", "310.4,320,348.8,336,352")); flag = true; }

            foreach (var element in list)

            {

                if (element.Item2 == user)

                    return 0;

            }

            string encrypted="";

            char[] arr = password.ToCharArray();

            foreach(char a in arr)

            {

                encrypted += (Convert.ToInt32(a).ToString())\*3.2;

                encrypted += ','.ToString();

            }

            password = encrypted;

            list.Add(new Tuple<string, string, string>(name,user,password));

            return 1;

        }

    }

}

**Order Form:**

namespace lab5

{

    public partial class FinalProduct\_Form : Form

    {

        Product obj1 = new Product();

        public FinalProduct\_Form()

        {

            InitializeComponent();

            Counterlabel2.Text = obj1.Counter().ToString();

            dataGridView1.Columns[0].Width = 40;

            dataGridView1.Columns[1].Width = 140;

            dataGridView1.Columns[2].Width = 75;

            insert();

            dataGridView1.SelectionMode = DataGridViewSelectionMode.FullRowSelect;

            dataGridView1.MultiSelect = false;

            dataGridView1.RowPrePaint += new DataGridViewRowPrePaintEventHandler(dgv\_RowPrePaint);

        }

        int c = 1;

        void insert()

        {

            dataGridView1.Rows.Add(c++, "Pencil", 10);

            dataGridView1.Rows.Add(c++, "Plastic Scale", 10);

            dataGridView1.Rows.Add(c++, "Metal Scale", 20);

            dataGridView1.Rows.Add(c++, "Wood Scale", 15);

            dataGridView1.Rows.Add(c++, "Eraser", 10);

            dataGridView1.Rows.Add(c++, "Sharpner", 5);

            dataGridView1.Rows.Add(c++, "Small Copy", 20);

            dataGridView1.Rows.Add(c++, "Medium Copy", 30);

            dataGridView1.Rows.Add(c++, "Ruff Register", 70);

            dataGridView1.Rows.Add(c++, "Fair NoteBook", 150);

        }

        private void dgv\_RowPrePaint(object sender, DataGridViewRowPrePaintEventArgs e)

        {

            e.PaintParts &= ~DataGridViewPaintParts.Focus;

        }

        private void Orderbutton1\_Click(object sender, EventArgs e)

        {

            MessageBox.Show("Order Placed Successfully!", "Lab 5", MessageBoxButtons.OK, MessageBoxIcon.Information);

            this.Close();

        }

        void insertp()

        {

            Pricelabel3.Text = obj1.totalprice.ToString();

            SProducttextBox1.Text = "";

            foreach (var element in Product.products)

            {

                string a = element.Item1;

                SProducttextBox1.Text += "" + a + Environment.NewLine;

            }

        }

        private void dataGridView1\_DoubleClick(object sender, EventArgs e)

        {

            Productlabel.Text=obj1.Add(dataGridView1.Rows[dataGridView1.CurrentRow.Index].Cells[1].Value.ToString(),Convert.ToInt32(dataGridView1.Rows[dataGridView1.CurrentRow.Index].Cells[2].Value)).ToString();

            insertp();

        }

    }

}

**Signup Form:**

namespace lab5

{

    public partial class SignUp : Form

    {

        public SignUp()

        {

            InitializeComponent();

        }

        private void logbutton1\_Click(object sender, EventArgs e)

        {

            int check = 0;

            if (Spass1textBox2.Text == SConfirmtextBox1.Text)

            {

                Product obj = new Product();

                check = obj.SignUp(SNametextBox2.Text, SUsertextBox1.Text, Spass1textBox2.Text);

                this.Hide();

                LogINForm obj1 = new LogINForm();

                obj1.Show();

                if(check==0)

                MessageBox.Show("UserName Alredy Taken Try Different", "Lab5", MessageBoxButtons.OK, MessageBoxIcon.Error);

                else

                    MessageBox.Show("Account Created SuccessFully!", "Lab5", MessageBoxButtons.OK, MessageBoxIcon.Information);

            }

            else

                MessageBox.Show("Password Not Match Please Retype it", "Lab5", MessageBoxButtons.OK, MessageBoxIcon.Error);

        }

    }

}

**Login Form:**

namespace lab5

{

    public partial class LogINForm : Form

    {

        public LogINForm()

        {

            InitializeComponent();

            regbutton2.Text = "Not Registerd Yet" + Environment.NewLine + " Sign Up";

        }

        private void button1\_Click(object sender, EventArgs e)

        {

            int check = 0;

            Product obj1 = new Product();

            check=obj1.login(usertextBox1.Text, passtextBox2.Text);

            if (check == 0)

                MessageBox.Show("Password And UserName Is In Correct", "Lab5", MessageBoxButtons.OK, MessageBoxIcon.Error);

            else

            {

                FinalProduct\_Form obj = new FinalProduct\_Form();

                obj.Show();

                MessageBox.Show("Login SuccessFully!", "Lab5", MessageBoxButtons.OK, MessageBoxIcon.Information);

            }

        }

        private void regbutton2\_Click(object sender, EventArgs e)

        {

            this.Hide();

            SignUp obj = new SignUp();

            obj.Show();

        }

    }

}