

Question 1

Code:

```
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Navigation;
using System.Windows.Shapes;

namespace StockManagement
{
    /// <summary>
    /// Interaction logic for MainWindow.xaml
    /// </summary>
    public partial class MainWindow : Window
    {
        string conString = @"Data Source=LAPTOP-6IMACERQ;Initial
Catalog=StockSystem;Integrated Security=True";
        SqlConnection cnn;

        String sql1;
        SqlCommand cmd;
        SqlDataAdapter adapter = new SqlDataAdapter();
        ListProduct f1 = new ListProduct();
        Barcode f2 = new Barcode();
        public MainWindow()
        {
            InitializeComponent();

        }

        public void AddProduct()
        {
            try
            {
                String Category = comboCategory.Text;
                String Name = txtProduct.Text;
                float Cost = float.Parse(txtCost.Text);
                float Selling = float.Parse(txtSelling.Text);
                int Quantity = int.Parse(txtQuantity.Text);
                String barcode = txtBarcode.Text;
```

```

        sql1 = "INSERT into dbo.Products
(Category,Name,Cost,Selling,Quantity,Barcode) Values " +
        "(" + Category + "', '" + Name + "', '" + Cost + "', '" +
Selling + "', '" + Quantity + "', '" + barcode + "'" );";

```

```

        cnn = new SqlConnection(conString);
        cnn.Open();

        cmd = new SqlCommand(sql1, cnn);
        adapter.InsertCommand = cmd;

```

```

        int result = cmd.ExecuteNonQuery();
        if (result > 0)
        {
            MessageBox.Show("Added Successfully");
        }
        if (Quantity > 5)
        {
            MessageBox.Show("Stock is low");
        }
        cmd.Dispose();
        cnn.Dispose();
    }

```

```

    catch (Exception ex)
    {
        MessageBox.Show("You have a problem" + ex.Message);
    }
}

```

```

public void DeleteProduct()
{
    try
    {
        cnn = new SqlConnection(conString);
        cnn.Open();

        string sql1 = "Delete from Products where Name = '" +
this.txtProduct.Text + "' ";

        cmd = new SqlCommand(sql1, cnn);

```

```

        int result = cmd.ExecuteNonQuery();

        if (result > 0)
        {
            MessageBox.Show("Deleted Successfully");
        }
        cnn.Close();
    }
}

```

```

        catch (Exception ex)
        {
            MessageBox.Show("You have a problem" + ex.Message);
        }
    }

    public void UpdateProduct()
    {
        try
        {
            cnn = new SqlConnection(conString);
            cnn.Open();

            string sql1 = "update Products set Category = '" +
this.comboCategory.Text + "', " +
            "Name = '" + this.txtProduct.Text + "' , " +
            "Cost = '" + this.txtCost.Text + "', " +
            "Selling = '" + this.txtSelling.Text + "'";

            cmd = new SqlCommand(sql1, cnn);

            int result = cmd.ExecuteNonQuery();

            if (result > 0)
            {
                MessageBox.Show("Updated Successfully");
            }
            cnn.Close();
        }

        catch (Exception ex)
        {
            MessageBox.Show("You have a problem" + ex.Message);
        }
    }

    private void Button_Click(object sender, RoutedEventArgs e)
    {
        AddProduct();
        f1.Show();
        this.Close();
    }

    private void btnView_Click(object sender, RoutedEventArgs e)
    {
        f1.Show();
    }

    private void btnDelete_Click(object sender, RoutedEventArgs e)
    {
        DeleteProduct();
        f1.Show();
        this.Close();
    }

```

```

    }

    private void btnUpdate_Click(object sender, RoutedEventArgs e)
    {
        UpdateProduct();
        f1.Show();
        this.Close();
    }

    private void btnBarcode_Click(object sender, RoutedEventArgs e)
    {
        f2.Show();
        this.Close();
    }
}
}

```

```

.....

using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;

namespace StockManagement
{
    /// <summary>
    /// Interaction logic for ListProduct.xaml
    /// </summary>
    public partial class ListProduct : Window
    {
        string conString = @"Data Source=LAPTOP-6IMACERQ;Initial
Catalog=StockSystem;Integrated Security=True";
        SqlConnection cnn;

        String sql1;
        SqlCommand cmd;

        MainWindow m1 = new MainWindow();

        public ListProduct()
        {
            InitializeComponent();
        }

        private void Button_Click(object sender, RoutedEventArgs e)

```

```

    {
        LoadTable();
    }

    public void LoadTable()
    {
        try
        {
            cnn = new SqlConnection(conString);
            cnn.Open();

            string sql1 = "SELECT Category,Name,Cost,Selling,Quantity FROM
Products";

            cmd = new SqlCommand(sql1, cnn);
            SqlDataAdapter adapter = new SqlDataAdapter(cmd);
            DataTable dt = new DataTable("Products");

            adapter.Fill(dt);
            adapter.Update(dt);
            ProductList.ItemsSource = dt.DefaultView;

            int result = cmd.ExecuteNonQuery();
            if (result > 0)
            {
                MessageBox.Show("Saved Successfully");
            }
            cmd.Dispose();
            cnn.Close();
        }

        catch (Exception ex)
        {
            MessageBox.Show("You have a problem" + ex.Message);
        }
    }

    private void Button_Click_1(object sender, RoutedEventArgs e)
    {
        m1.Show();
        this.Close();
    }
}

```

.....

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;

```

```

using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;

namespace StockManagement
{
    /// <summary>
    /// Interaction logic for Barcode.xaml
    /// </summary>
    public partial class Barcode : Window
    {
        public Barcode()
        {
            InitializeComponent();
        }

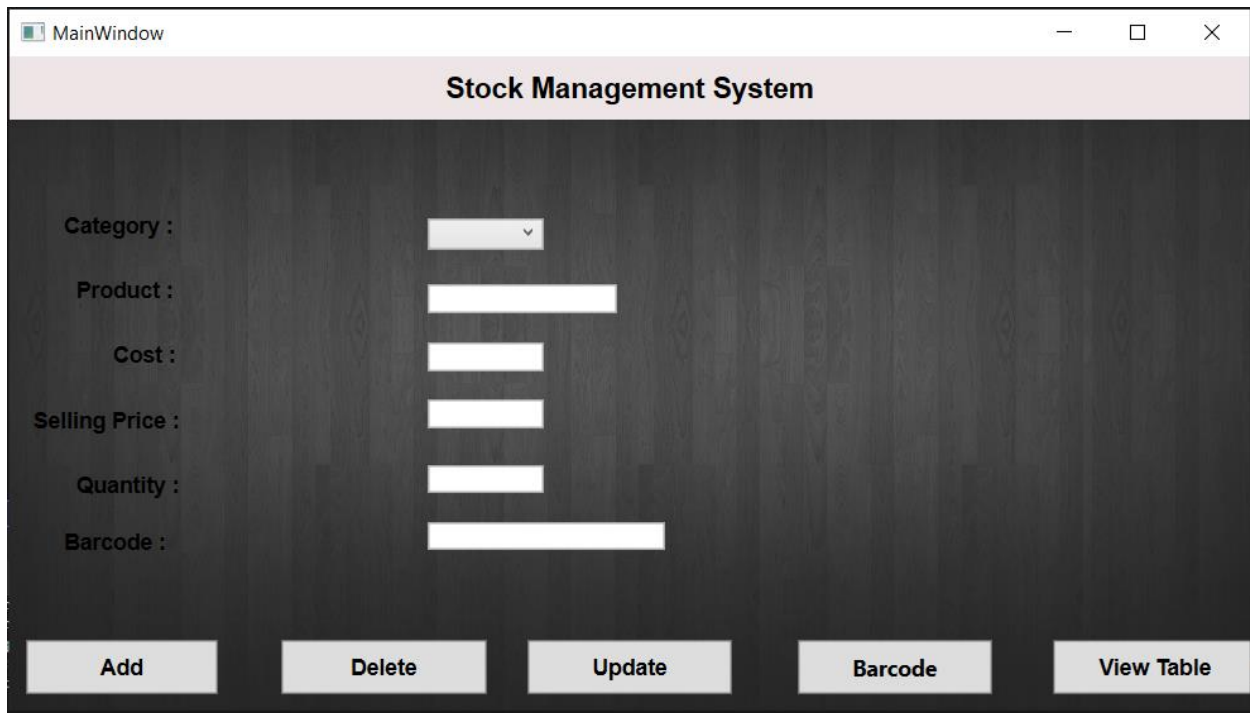
        private void btnPrint_Click(object sender, RoutedEventArgs e)
        {
            methodPrint();
        }

        public void methodPrint()
        {
            try
            {
                PrintDialog dialog = new PrintDialog();

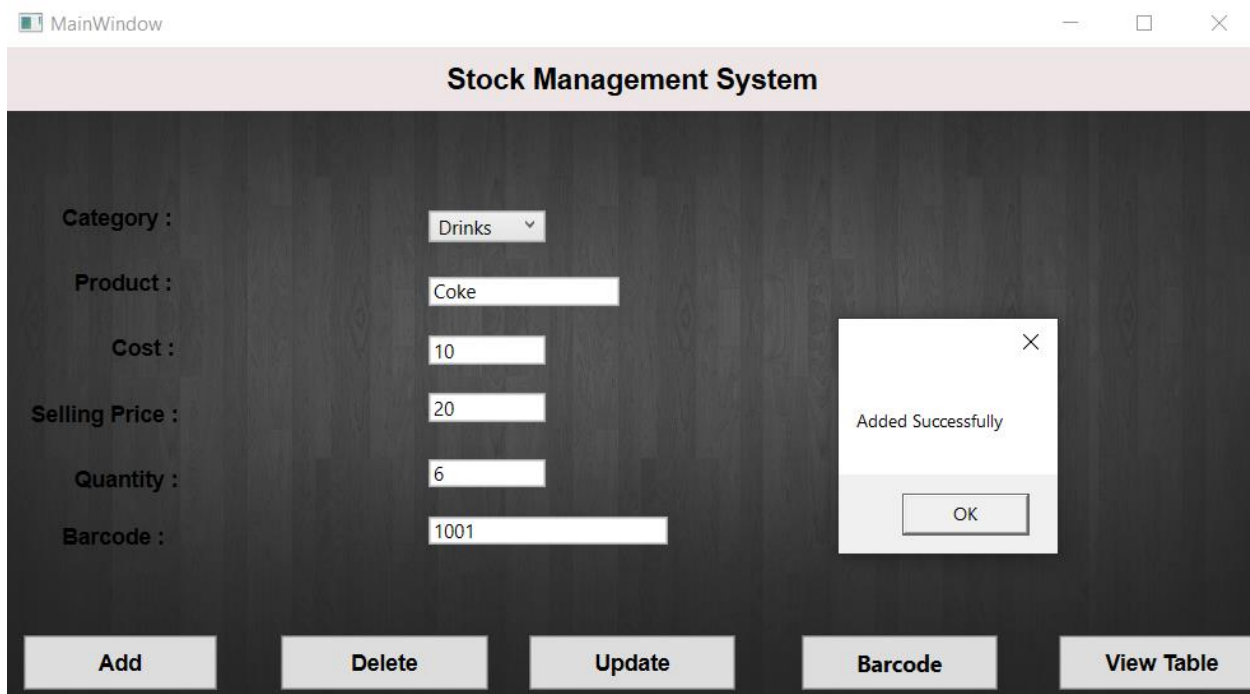
                if (dialog.ShowDialog() != true)
                    return;
                dialog.PrintVisual(_mainFrame, "IFMS Print Screen");
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message, "Print Screen", MessageBoxButton.OK,
                MessageBoxImage.Error);
            }
        }
    }
}

```

Output:



The screenshot shows the 'Stock Management System' main window. It has a title bar with 'MainWindow' and standard window controls. The header is a light pink bar with the title 'Stock Management System'. The main area has a dark wood-grain background. On the left, there are labels for 'Category:', 'Product:', 'Cost:', 'Selling Price:', 'Quantity:', and 'Barcode:'. To the right of each label is an empty input field. At the bottom, there are five buttons: 'Add', 'Delete', 'Update', 'Barcode', and 'View Table'.



This screenshot shows the same 'Stock Management System' main window, but with data entered into the fields: 'Category:' is 'Drinks', 'Product:' is 'Coke', 'Cost:' is '10', 'Selling Price:' is '20', 'Quantity:' is '6', and 'Barcode:' is '1001'. A small white dialog box with a close button (X) is open on the right, displaying the message 'Added Successfully' and an 'OK' button. The bottom buttons remain the same.

MainWindow

Stock Management System

Category : Drinks

Product : Coke

Cost : 10

Selling Price : 20

Quantity : 6

Barcode : 1001

Stock is low

OK

Add Delete Update Barcode View Table

ListProduct

Category	Name	Cost	Selling	Quantity	
Drinks	Coke	10.0000	20.0000	6	

Refresh

