Table of Contents

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 Coffee_Shop
{
    /// <summary>
    /// Interaction logic for MainWindow.xaml
    /// </summary>
    public partial class MainWindow : Window
    {
        Validation f1 = new Validation();

        public MainWindow()
        {
            InitializeComponent();

        }

        private void b1_btn_Click(object sender, RoutedEventArgs e)
        {
            this.Close();
            f1.Show();
        }

        private void b2_btn_Click(object sender, RoutedEventArgs e)
        {
            methodPrint();
        }
        public void methodPrint()
        {
            try
            {
                PrintDialog dialog = new PrintDialog();
                if (dialog.ShowDialog() != true)
                    return;
                dialog.PrintVisual(txtDisplay, "IFMS Print Screen");
```

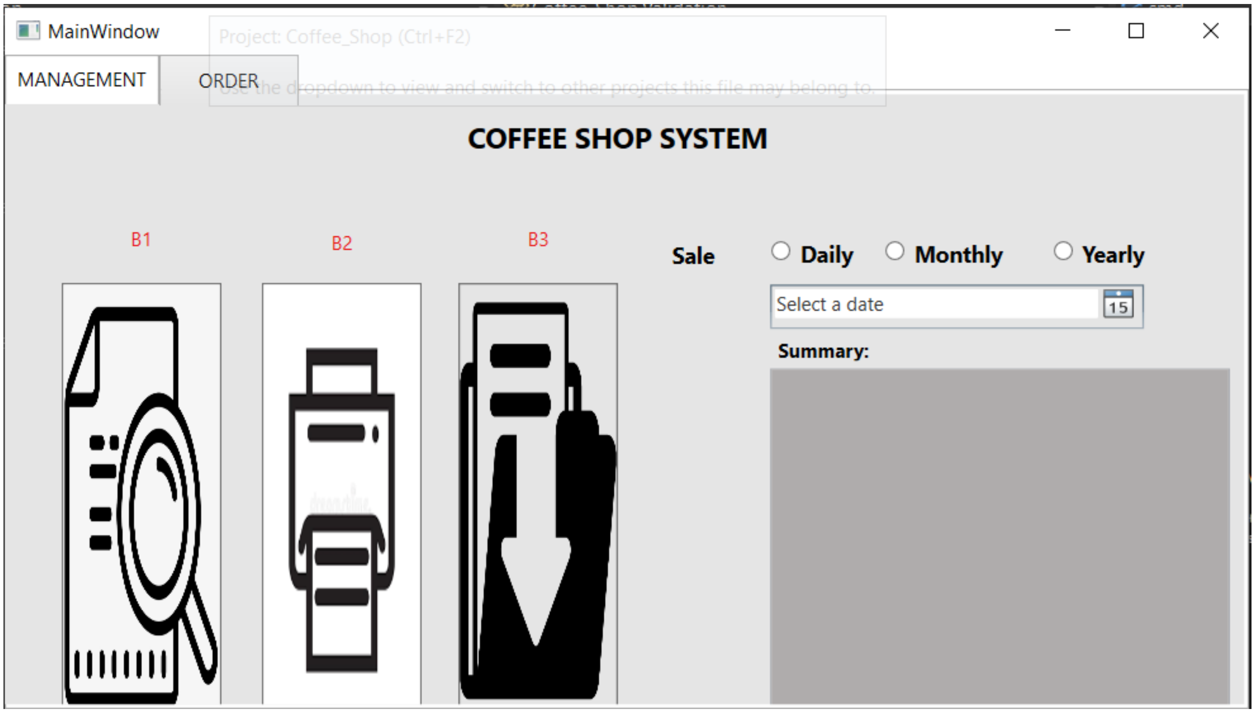
```
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message, "Print Screen", MessageBoxButton.OK,
               MessageBoxImage.Error);
            }

        }

        private void b3_btn_Click(object sender, RoutedEventArgs e)
        {
            this.Close();
            f1.Show();
        }
    }
}



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;
using System.Data.SqlClient;
using System.Data;
using System.IO;

namespace Coffee_Shop
{
    /// <summary>
    /// Interaction logic for Validation.xaml
    /// </summary>
    public partial class Validation : Window
    {
        string conString = @"Data Source=LAPTOP-6IMACERQ;Initial
Catalog=CoffeShopDB;Integrated Security=True";
        SqlConnection cnn;
        String sql1;
        SqlCommand cmd;

        public Validation()
        {
            InitializeComponent();
        }

        private void Confirm_btn_Click(object sender, RoutedEventArgs e)
        {
            BackUpFile();
            /// Call Validation Method
```

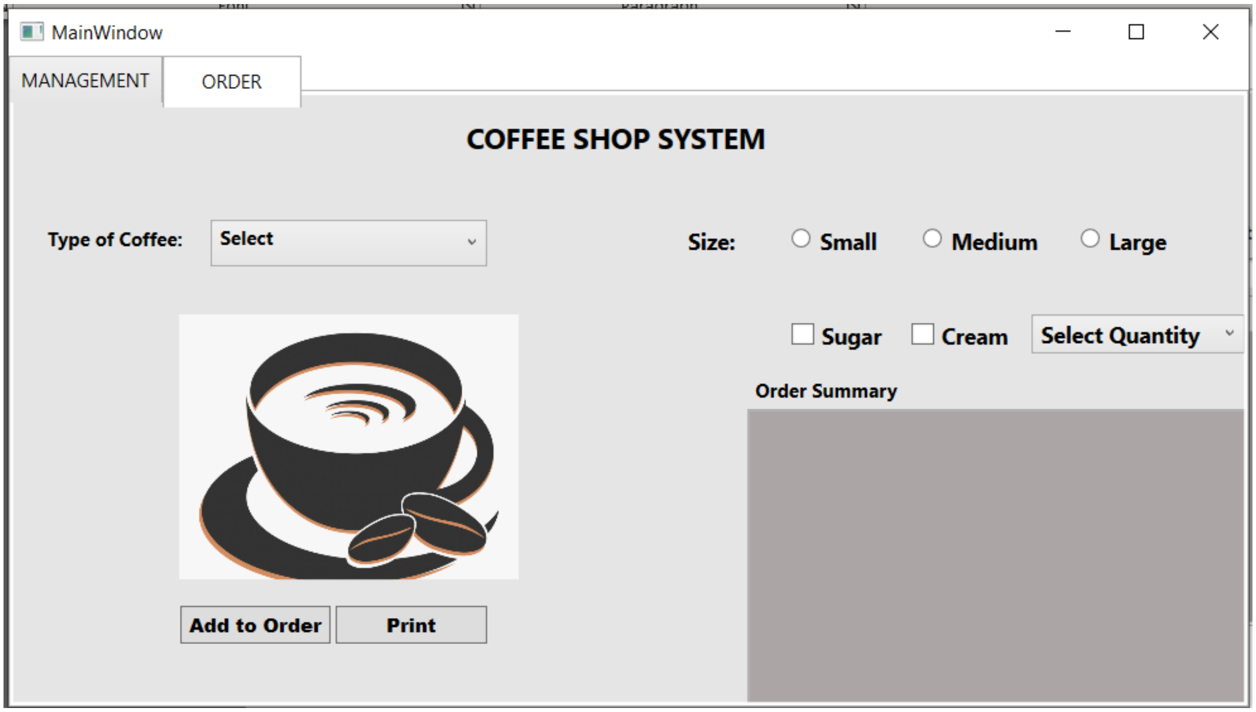
```
            Login();
        }

        /// Validation Method
        public void Login()
        {
            sql1 = "Select * from ManagerTable Where Username = '"+ txtUser.Text +"' 
and  Password = '"+ txtPass.Text +"'";

            cnn = new SqlConnection(conString);

            SqlDataAdapter adapter = new SqlDataAdapter(sql1, cnn);
            DataTable dtb1 = new DataTable();

            adapter.Fill(dtb1);

            if (dtb1.Rows.Count == 1)
            {
                MessageBox.Show("Login Successful");

                MainWindow main = new MainWindow();
                this.Hide();
                main.Show();
            }
            else
            {
                MessageBox.Show("Login Unsuccessful");
            }
        }

        public void BackUpFile()
        {
            string user, time;

            user = txtUser.Text;
            time = DateTime.Now.ToString("dddd, dd-MM-yyyy");

            File.AppendAllText(@"C:/Users/Jared 
Moodley/OneDrive/Documents/SD_2022/PRG512_C#/Summative/BackUpSale.txt ", "Date: " + 
time + "\n\n");

            File.AppendAllText(@"C:/Users/Jared 
Moodley/OneDrive/Documents/SD_2022/PRG512_C#/Summative/BackUpSale.txt ","Username: " 
+ user + "\n");
            File.AppendAllText(@"C:/Users/Jared 
Moodley/OneDrive/Documents/SD_2022/PRG512_C#/Summative/BackUpSale.txt ","Password: " 
+ txtPass.Text + "\n\n");



        }
    }
}


using System;
using System.Collections.Generic;
using System.Linq;
```

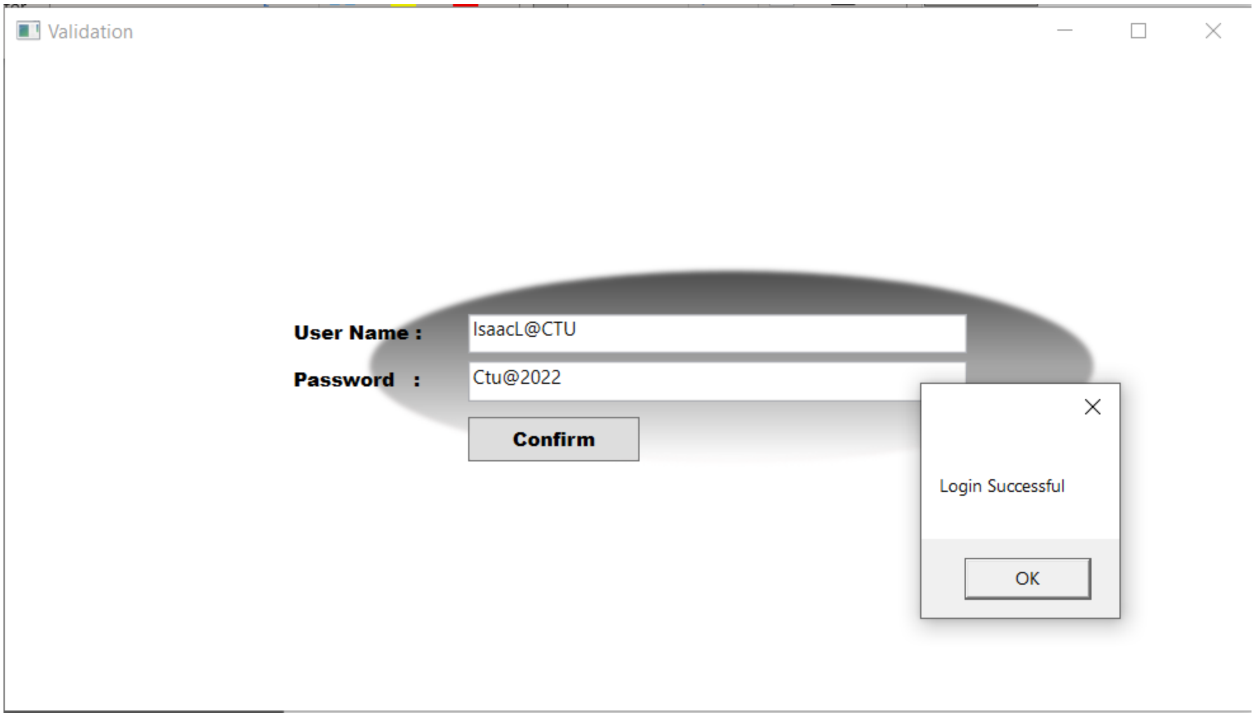
```
using System.Text;
using System.Threading.Tasks;

namespace Coffee_Shop
{
    internal interface Interface1
    {
        string TotalOrderSummary();
    }
}


using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Coffee_Shop
{
    internal class Order: Interface1
    {
        private string coffee, SizeOfCoffee, ingredients;
        private int quantity, price;

        public Order(string coffee, string sizeOfCoffee, string ingredients, int
quantity, int price)
        {
            this.coffee = coffee;
            SizeOfCoffee = sizeOfCoffee;
            this.ingredients = ingredients;
            this.quantity = quantity;
            this.price = price;
        }

        public string Coffee
        {
            get { return coffee; }
        }
        public string SizeofCoffee
        {
            get { return SizeOfCoffee; }
        }
        public string Ingredients
        {
            get { return ingredients; }
        }
        public int Price
        {
            get { return price; }
        }
        public int Quantity
        {
            get { return quantity; }
        }


        public virtual string TotalOrderSummary()
```

```
        {
            int Total = quantity * price;
            string total = Total.ToString();
            string order =
                            quantity+"\t "+coffee+""+SizeOfCoffee+""+ingredients+"\t
"+price+"\t "+total;
            return total;

        }

    }
}


using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Coffee_Shop
{
    internal class Manager : Order
    {
        public Manager(string coffee, string sizeOfCoffee, string ingredients, int
quantity, int price) : base(coffee, sizeOfCoffee, ingredients, quantity, price)
        {
        }


    }
}
```

Output :


MainWindow
Project: Coffee_Shop (Ctrl+F2)
Use the dropdown to view and switch to other projects this file may belong to.
MANAGEMENT
ORDER
COFFEE SHOP SYSTEM
B1
B2
B3
Sale
○ Daily
○ Monthly
○ Yearly
Select a date
15
Summary:

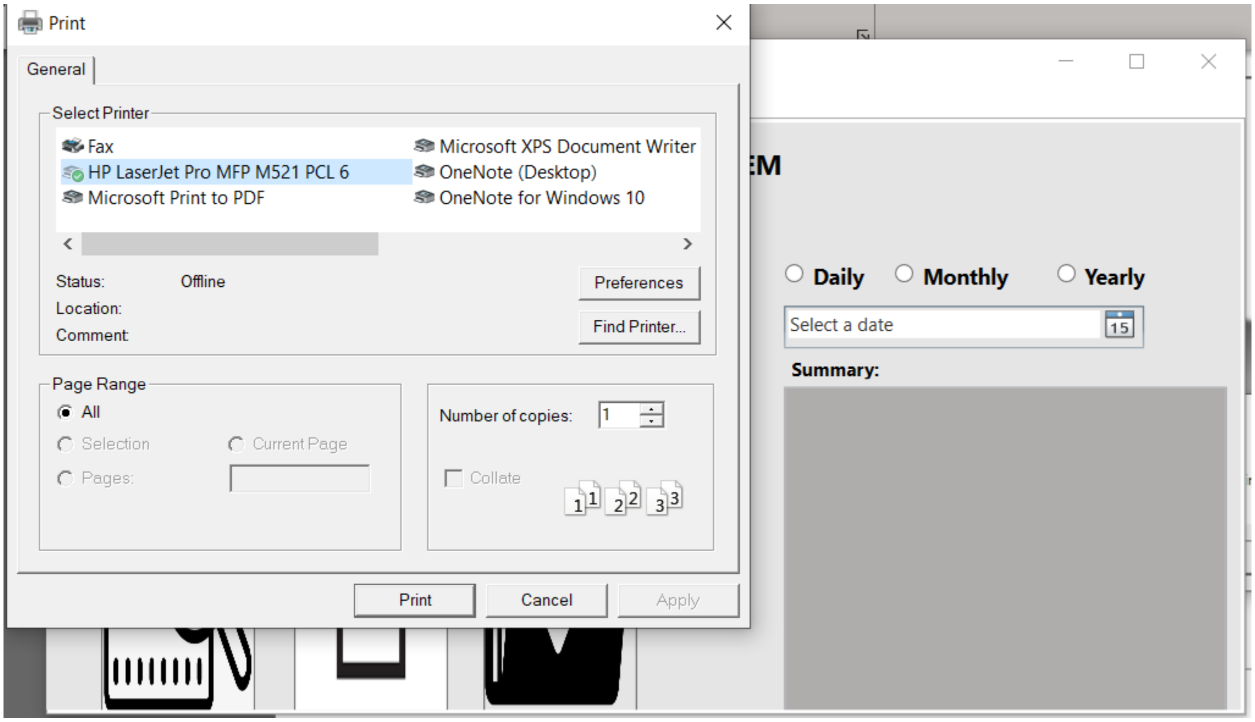

MainWindow
MANAGEMENT
ORDER
COFFEE SHOP SYSTEM
Type of Coffee:
Select
Size:
○ Small
○ Medium
○ Large
☐ Sugar
☐ Cream
Select Quantity
Order Summary
Add to Order
Print



User Name : IsaacL@CTU

Password : Ctu@2022

Login Successful



Status: Offline

Location:

Comment:

● All

○ Selection ○ Current Page

○ Pages:

Number of copies: 1

☐ Collate

○ **Daily** ○ **Monthly** ○ **Yearly**

Select a date