

Default.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs"
Inherits="WebApp._Default" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>My WEBSITE</title>

  <style>
    .linkStyle {
      display: inline-block;
      margin: 10px 0;
    }
  </style>
</head>
<body>

  <form id="form1" runat="server">

    <asp:HyperLink ID="InkTask1Problem" runat="server"
      NavigateUrl="task_01_problem_statement.txt"
      CssClass="linkStyle">
      Task_01 Problem Statement
    </asp:HyperLink>
    <br />

    <asp:HyperLink ID="InkTask1Report" runat="server"
      NavigateUrl="task_01_Code_Implementation_report.pdf"
      CssClass="linkStyle">
      Task_01 Code Implementation Report
    </asp:HyperLink>
    <br />

    <asp:HyperLink ID="InkTask1Output" runat="server"
      NavigateUrl="task_01_sample_output.pdf"
      CssClass="linkStyle">
      Task_01 Sample Output
    </asp:HyperLink>
    <br />

    <asp:HyperLink ID="InkTask1Demo" runat="server"
      NavigateUrl="task_01.aspx"
      CssClass="linkStyle">
      Task_01 Demonstration Page
    </asp:HyperLink>
    <br />

  </form>
```

```
</body>
</html>
```

Default.aspx.cs:

```
using System;

namespace WebApp
{
    public partial class _Default : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            // Runs every time page loads
        }
    }
}
```

task_01.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="task_01.aspx.cs"
Inherits="Lab05IAD.task_01" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style>
        .linkStyle {
            display: inline-block;
            margin: 10px 0;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <asp:HyperLink runat="server" NavigateUrl="task_01_Customer_Registration.aspx"
CssClass="linkStyle">
Customer Registration

    </asp:HyperLink>
    <br />
    <asp:HyperLink runat="server" NavigateUrl="task_01_product_catalog.aspx" CssClass="linkStyle">
Product Catalog
    </asp:HyperLink>
    <br />
    <asp:HyperLink runat="server" NavigateUrl="task_01_product_selection.aspx" CssClass="linkStyle">
```

Product Selection

```
</asp:HyperLink>  
<br />
```

```
</form>  
</body>  
</html>
```

task_01.aspx.cs:

```
using System;  
using System.Collections.Generic;  
using System.Linq;  
using System.Web;  
using System.Web.UI;  
using System.Web.UI.WebControls;  
  
namespace Lab05IAD  
{  
    public partial class task_01 : System.Web.UI.Page  
    {  
        protected void Page_Load(object sender, EventArgs e)  
        {  
        }  
    }  
}
```

task_01_Customer_Registration.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="task_01_Customer_Registration.aspx.cs"  
Inherits="PVFC.task_01_Customer_Registration" %>
```

```
<!DOCTYPE html>  
<html>  
<head runat="server">  
    <title>Customer Registration</title>  
</head>  
<body>  
<form id="form1" runat="server">  
    <h2>New Customer Registration</h2>
```

```
Customer ID:<br />  
<asp:TextBox ID="txtId" runat="server" /><br /><br />
```

```
Customer Name:<br />  
<asp:TextBox ID="txtName" runat="server" /><br /><br />
```

```

Address:<br />
<asp:TextBox ID="txtAddress" runat="server" /><br /><br />

State:<br />
<asp:TextBox ID="txtState" runat="server" /><br /><br />

City:<br />
<asp:DropDownList ID="ddlCity" runat="server" AutoPostBack="true"
    OnSelectedIndexChanged="ddlCity_SelectedIndexChanged">
    <asp:ListItem Text="Lahore" Value="54000" />
    <asp:ListItem Text="Karachi" Value="74000" />
    <asp:ListItem Text="Islamabad" Value="44000" />
    <asp:ListItem Text="Rawalpindi" Value="46000" />
</asp:DropDownList><br /><br />

Postal Code:<br />
<asp:TextBox ID="txtPostal" runat="server" ReadOnly="true" /><br /><br />

<asp:Button ID="btnRegister" runat="server"
    Text="Register Customer"
    OnClick="btnRegister_Click" />

<br /><br />
<asp:Label ID="lblMsg" runat="server" ForeColor="Green" />
</form>
</body>
</html>

```

task_01_Customer_Registration.aspx.cs:

```

using System;
using System.Configuration;
using System.Data.SqlClient;

namespace PVFC
{
    public partial class task_01_Customer_Registration : System.Web.UI.Page
    {
        // Connection string to your SQL Server database
        string connStr = ConfigurationManager.ConnectionStrings["PVFCConnectionString"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                ddlCity.Items.Insert(0, new System.Web.UI.WebControls.ListItem("Select City", ""));
            }
        }
    }
}

```

```

// Auto-fill postal code from city dropdown
protected void ddlCity_SelectedIndexChanged(object sender, EventArgs e)
{
    txtPostal.Text = ddlCity.SelectedValue; // Postal code value from dropdown
}

protected void btnRegister_Click(object sender, EventArgs e)
{
    try
    {
        using (SqlConnection con = new SqlConnection(connStr))
        {
            string query = @"INSERT INTO CUSTOMER_t
                             (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State,
Postal_Code)
                             VALUES
                             (@Id, @Name, @Address, @City, @State, @Postal)";

            using (SqlCommand cmd = new SqlCommand(query, con))
            {
                cmd.Parameters.AddWithValue("@Id", txtId.Text);
                cmd.Parameters.AddWithValue("@Name", txtName.Text);
                cmd.Parameters.AddWithValue("@Address", txtAddress.Text);
                cmd.Parameters.AddWithValue("@City", ddlCity.SelectedItem.Text);
                cmd.Parameters.AddWithValue("@State", txtState.Text);
                cmd.Parameters.AddWithValue("@Postal", txtPostal.Text);

                con.Open();
                int rows = cmd.ExecuteNonQuery();

                lblMsg.Text = rows > 0 ? "Customer Registered Successfully!" : "Registration Failed!";
            }
        }
    }
    catch (Exception ex)
    {
        lblMsg.Text = "Error: " + ex.Message;
    }
}
}
}

```

task_01_product_Catalog.aspx:

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="task_01_product_catalog.aspx.cs"
Inherits="PVFC.task_01_product_catalog" %>

<!DOCTYPE html>
<html>
<head runat="server">

```

```

<title>Product Catalog Update</title>
</head>
<body>
<form id="form1" runat="server">
    <h2>Product Catalog Update</h2>

    Product ID:<br />
    <asp:TextBox ID="txtProductId" runat="server" /><br /><br />

    Product Line:<br />
    <asp:DropDownList ID="ddlProductLine" runat="server">
        <asp:ListItem Text="Select Line" Value="" />
        <asp:ListItem Text="Cherry Tree" Value="1" />
        <asp:ListItem Text="Scandinavia" Value="2" />
        <asp:ListItem Text="Country Look" Value="3" />
    </asp:DropDownList><br /><br />

    Description:<br />
    <asp:TextBox ID="txtDescription" runat="server" /><br /><br />

    Finish:<br />
    <asp:TextBox ID="txtFinish" runat="server" /><br /><br />

    Standard Price:<br />
    <asp:TextBox ID="txtPrice" runat="server" /><br /><br />

    <asp:Button ID="btnUpdate" runat="server"
        Text="Update Product"
        OnClick="btnUpdate_Click" />

    <br /><br />
    <asp:Label ID="lblMsg" runat="server" ForeColor="Green" />
</form>
</body>
</html>

```

task_01_product_Catalog.aspx.cs:

```

using System;
using System.Configuration;
using System.Data.SqlClient;

namespace PVFC
{
    public partial class task_01_product_catalog : System.Web.UI.Page
    {
        string connStr = ConfigurationManager.ConnectionStrings["PVFCConnectionString"].ConnectionString;

        protected void btnUpdate_Click(object sender, EventArgs e)
        {

```

```

try
{
    using (SqlConnection con = new SqlConnection(connStr))
    {
        string query = @"UPDATE PRODUCT_t
                        SET Product_Line_Id = @LineId,
                          Product_Description = @Desc,
                          Product_Finish = @Finish,
                          Standard_Price = @Price
                        WHERE Product_Id = @Pid";

        using (SqlCommand cmd = new SqlCommand(query, con))
        {
            cmd.Parameters.AddWithValue("@Pid", txtProductId.Text);
            cmd.Parameters.AddWithValue("@LineId", ddlProductLine.SelectedValue);
            cmd.Parameters.AddWithValue("@Desc", txtDescription.Text);
            cmd.Parameters.AddWithValue("@Finish", txtFinish.Text);
            cmd.Parameters.AddWithValue("@Price", txtPrice.Text);

            con.Open();
            int rows = cmd.ExecuteNonQuery();

            lblMsg.Text = rows > 0 ? "Product Updated Successfully!" : "Product ID Not Found!";
        }
    }
}
catch (Exception ex)
{
    lblMsg.Text = "Error: " + ex.Message;
}
}
}

```

task_01_product_selection.aspx:

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="task_01_product_selection.aspx.cs"
Inherits="PVFC.task_01_product_selection" %>
<!DOCTYPE html>
<html>
<head runat="server">
<title>Product Selection</title>
</head>
<body>
<form id="form1" runat="server">
<h2>Select Product For Order</h2>
Order ID:<br />
<asp:TextBox ID="txtOrderId" runat="server"></asp:TextBox>
<br /><br />
Product ID:<br />

```

```

<asp:TextBox ID="txtProductId" runat="server"></asp:TextBox>
<br /><br />
Quantity:<br />
<asp:TextBox ID="txtQuantity" runat="server"></asp:TextBox>
<br /><br />
<asp:Button ID="btnAdd"
runat="server"
Text="Add Product"
OnClick="btnAdd_Click" />
<br /><br />
<asp:Label ID="lblMsg" runat="server"></asp:Label>
</form>
</body>
</html>

```

task_01_product_selection.aspx.cs

```

using System;
using System.Configuration;
using System.Data.SqlClient;

namespace PVFC
{
    public partial class task_01_product_selection : System.Web.UI.Page
    {
        // Connection string to your PVFC database
        string connStr = ConfigurationManager.ConnectionStrings["PVFCConnectionString"].ConnectionString;

        protected void btnAdd_Click(object sender, EventArgs e)
        {
            try
            {
                // Get input values
                int orderId = int.Parse(txtOrderId.Text);
                int productId = int.Parse(txtProductId.Text);
                int quantity = int.Parse(txtQuantity.Text);

                using (SqlConnection con = new SqlConnection(connStr))
                {
                    // Insert into Order_line_t table
                    string query = @"INSERT INTO Order_line_t (Order_Id, Product_Id, Ordered_Quantity)
                                   VALUES (@oid, @pid, @qty)";

                    SqlCommand cmd = new SqlCommand(query, con);
                    cmd.Parameters.AddWithValue("@oid", orderId);
                    cmd.Parameters.AddWithValue("@pid", productId);
                    cmd.Parameters.AddWithValue("@qty", quantity);

                    con.Open();
                }
            }
            catch { }
        }
    }
}

```

```
cmd.ExecuteNonQuery();
con.Close();

lblMsg.ForeColor = System.Drawing.Color.Green;
lblMsg.Text = "Product added to order successfully!";
}
}
catch (FormatException)
{
    lblMsg.ForeColor = System.Drawing.Color.Red;
    lblMsg.Text = "Please enter valid numeric values for Order ID, Product ID, and Quantity.";
}
catch (SqlException ex)
{
    lblMsg.ForeColor = System.Drawing.Color.Red;
    lblMsg.Text = "Database error: " + ex.Message;
}
catch (Exception ex)
{
    lblMsg.ForeColor = System.Drawing.Color.Red;
    lblMsg.Text = "Error: " + ex.Message;
}
}
}
```