

# ASP.NET Core Practicals:

## Practical 1: Creating simple applications and testing applications

### Q1. Create a simple Webpage Application by using user inputs (Personal Details Form)

The screenshot shows a web browser window titled 'Practical1' with the address bar displaying 'localhost:49688/Prac'. The page content is a form titled 'Enter Your Details:'. The form contains the following elements:

- 'Enter Name:' followed by a text input field.
- 'Enter Contact no.:' followed by a text input field.
- 'Enter Location:' followed by a dropdown menu with options: Thane, Mumbai, Dombivali, and Kalyan.
- 'Select Gender:' followed by two radio buttons labeled 'Male' and 'Female'.
- 'Education Details' followed by three checkboxes labeled 'SSC', 'HSC', and 'Graduate'.
- A 'Submit' button at the bottom left of the form.

### Pract1.aspx.cs

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

```

using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication4
{
    public partial class Pract1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Write("My name is " + txtname.Text + "</br>");

            Response.Write("My Contact no. is " + txtcontact.Text + "</br>");

            Response.Write("My Location is " + lstlocation.SelectedItem.Text + "</br>");

            if (maleradiobutton.Checked == true)
            {
                Response.Write("My Gender is " + maleradiobutton.Text + "</br>");
            }
            if (femaleradiobutton.Checked == true)
            {
                Response.Write("My Gender is " + femaleradiobutton.Text + "</br>");
            }

            StringBuilder sbUserchoices = new System.Text.StringBuilder();
            if (chkgraduate.Checked == true)
            {
                sbUserchoices.Append(chkgraduate.Text);
            }
            if (chkhsc.Checked == true)
            {
                sbUserchoices.Append(chkhsc.Text);
            }
            if (chkssc.Checked == true)
            {
                sbUserchoices.Append(chkssc.Text);
            }
            Response.Write("My Education details are " + sbUserchoices.ToString() +
"</br>");
        }
    }
}

```

### Pract1.aspx (source code)

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Pract1.aspx.cs"  
Inherits="WebApplication4.Pract1" %>  
  
<!DOCTYPE html>  
  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
    <title>Practical1</title>  
</head>  
<body>  
    <form id="form1" runat="server">  
        <div>  
            <!-- <%Response.Write("Hello"); %> -->  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <asp:Label ID="Label1" runat="server" Text="Enter Your Details:"></asp:Label>  
        </div>  
        <p>  
            <asp:Label ID="lblname" runat="server" Text="Enter Name:"></asp:Label>  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <asp:TextBox ID="txtname" runat="server"></asp:TextBox>  
            <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"  
ControlToValidate="txtname" ErrorMessage="*Required"  
ForeColor="#CC3300"></asp:RequiredFieldValidator>  
        </p>  
        <p>  
            <asp:Label ID="lblcontact" runat="server" Text="Enter Contact  
no.:"></asp:Label>  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <asp:TextBox ID="txtcontact" runat="server"></asp:TextBox>  
            <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"  
ControlToValidate="txtcontact" ErrorMessage="*Required"  
ForeColor="Red"></asp:RequiredFieldValidator>  
        </p>  
        <p>  
            <asp:Label ID="lbllocation" runat="server" Text="Enter  
Location:"></asp:Label>  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <asp:ListBox ID="lstlocation" runat="server" Width="122px">  
                <asp:ListItem>Thane</asp:ListItem>  
                <asp:ListItem>Mumbai</asp:ListItem>  
                <asp:ListItem>Dombivali</asp:ListItem>  
                <asp:ListItem>Kalyan</asp:ListItem>  
                <asp:ListItem>Andheri</asp:ListItem>  
                <asp:ListItem>Badlapur</asp:ListItem>  
                <asp:ListItem>Karjat</asp:ListItem>  
                <asp:ListItem>Dadar</asp:ListItem>  
            </asp:ListBox>  
        </p>  
        <p>  
            <asp:Label ID="blgender" runat="server" Text="Select Gender:"></asp:Label>  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <asp:RadioButton ID="maleradiobutton" runat="server" Text="Male" />  
            <asp:RadioButton ID="femaleradiobutton" runat="server" Text="Female" />
```

[illegible]

## Pract1.aspx (Design)

Pract1.aspx.cs   Pract1.aspx   Default.aspx   Global.aspx.cs   WebApplication4

Enter Your Details:

Enter Name:  \*Required

Enter Contact no.:  \*Required

Enter Location:   
Thane  
Mumbai  
Dombivali  
Kalyan

Select Gender: ☐ Male ☐ Female

Education Details ☐ SSC ☐ HSC ☐ Graduate

Design   Split   Source

## Output:

Practical1

localhost:49688/Prac

Enter Your Details:

Enter Name:  \*Required

Enter Contact no.:  \*Required

Enter Location:   
Thane  
Mumbai  
Dombivali  
Kalyan

Select Gender: ☐ Male ☐ Female

Education Details ☐ SSC ☐ HSC ☐ Graduate

Practical1

localhost:49688/Prac

My name is Siddhesh  
My Contact no. is [1234567890](#)  
My Contact no. is Thane  
My Gender is Male  
My Education details are GraduateHSCSSC

Enter Your Details:

Enter Name:

Enter Contact no.:

Enter Location: 

Thane

Mumbai

Dombivali

Kalyan

Select Gender: ☒ Male ☐ Female

Education Details ☒ SSC ☒ HSC ☒ Graduate

## **Q2. Write a simple Console applications and testing applications**

using System;

class SimpleApplication

{

static void Main()

{

// Creating a simple application

Console.WriteLine("Welcome to the Simple Application!");

Console.Write("Please enter your name: ");

string name = Console.ReadLine();

Console.WriteLine("Hello, " + name + "! This is a simple application.");

// Testing the application

Console.WriteLine("\nTesting the Simple Application...");

Console.WriteLine("Enter 'quit' to exit the testing loop.");

while (true)

{

Console.Write("Enter a number to square (or 'quit' to exit): ");

string input = Console.ReadLine();

if (input.ToLower() == "quit")

break;

if (int.TryParse(input, out int number))

{

int result = number \* number;

Console.WriteLine("The square of " + number + " is " + result + ".");

}

```
    else
    {
        Console.WriteLine("Invalid input. Please enter a valid number or 'quit'.");
    }
}

Console.WriteLine("\nTesting complete. Press any key to exit.");
Console.ReadKey();
}
}
```