SAMIKSHA HALVE – 14

PRACTICAL N0 – 2

Q2. A) Create a simple application to demonstrate the concepts boxing and unboxing.

Ans :-

Code :-

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

namespace NewPract2_a_{
    class Program {
        static void Main(string[] args){
            Console.WriteLine("NAME: Samiksha Halve \n\n");
            int num = 123;
            object obj = num;
            obj = 145;

            Console.WriteLine("Boxing:");
            Console.WriteLine($"Value type (int): {num}");
            Console.WriteLine($"Boxed type (object): {obj}");
            int unboxedNum = (int)obj;

            Console.WriteLine("\nUnboxing:");
            Console.WriteLine($"Boxed type (object): {obj}");
            Console.WriteLine($"Value type (int): {num}");
            Console.WriteLine($"Unboxed type (int): {unboxedNum}");
            Console.ReadKey();
        }
    }
}
```

Output :-

```
NAME: Samiksha Halve


Boxing:
Value type (int): 123
Boxed type (object): 145

Unboxing:
Boxed type (object): 145
Value type (int): 123
Unboxed type (int): 145
```

SAMIKSHA HALVE – 14

PRACTICAL N0 – 3

Q3. B) Create a simple application to demonstrate your vacation using calendar control.

Ans :-

Design :

Source Code :-

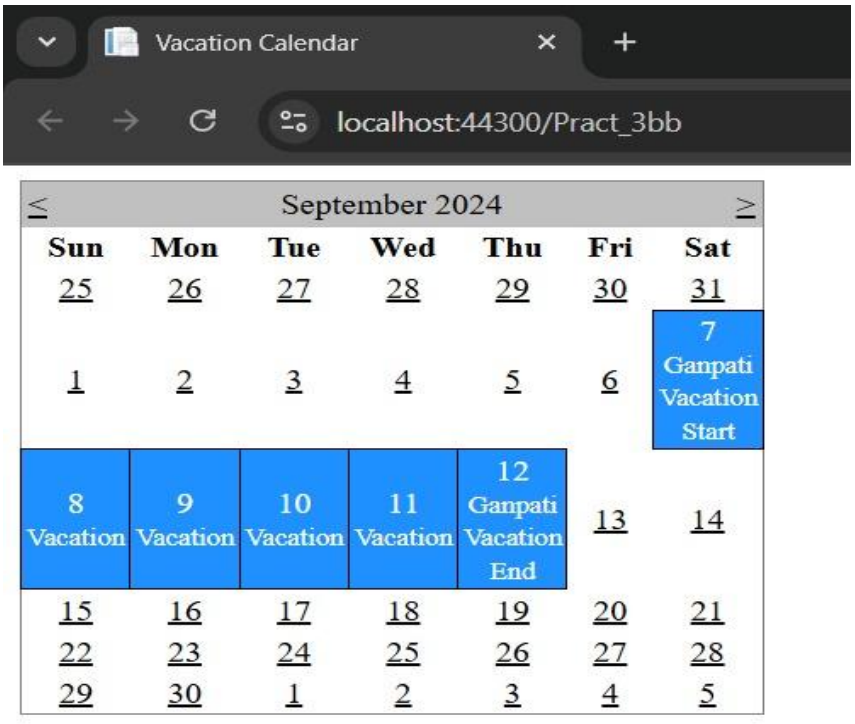
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Pract 3bb.aspx.cs"
Inherits="Practical_3.Pract_3bb" %>
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Vacation Calender</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Calendar
                ID="Calendar1" runat="server"
                OnDayRender="Calendar1_DayRender"
                OnSelectionChanged="Calendar1_SelectionChanged"
                SelectionMode="Day" Width="350px"/>
            </asp:Label ID="IBIMessage"runat="server" />
            <h4> Samiksha Halve</h4>
        </div>
    </form>
</body>
  </html>
```

Code :-

```
using System;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Practical_3{
    public partial class Pract_3bb : Page{
        private readonly DateTime vacStart = new DateTime(2024, 9, 7);
        private readonly DateTime vacEnd   = new DateTime(2024, 9, 12);
        protected void Page_Load(object sender, EventArgs e){
            if (!IsPostBack) {
// Make the calendar show September 2024 (so DayRender will fire for those dates)
                Calendar1.VisibleDate = new DateTime(2024, 9, 1);
            }
    }
        protected void Calendar1_DayRender(object sender, DayRenderEventArgs e){
            if (e.Day.Date >= vacStart && e.Day.Date <= vacEnd) {
                e.Cell.BackColor = System.Drawing.Color.DodgerBlue;
                e.Cell.ForeColor= System.Drawing.Color.White;
                e.Cell.BorderColor = System.Drawing.Color.Black;
                e.Cell.BorderWidth = Unit.Pixel(1);
                // label for each day
                string label;
                if (e.Day.Date == vacStart) label = "Ganpati Vacation Start";
                else if (e.Day.Date == vacEnd) label = "Ganpati Vacation End";
                else label = "Vacation";

                // tooltip and small label under day number
                e.Cell.ToolTip = label;
                e.Cell.Controls.Clear();
                e.Cell.Controls.Add(new LiteralControl(
                    $"<div style='text-align:center;line-
                height:1.1'>{e.Day.DayNumberText}<br/><small>{label}</small></div>"));
```

```
        }
    }
    protected void Calendar1_SelectionChanged(object sender, EventArgs e) {
        DateTime sel = Calendar1.SelectedDate;
        if (sel >= vacStart && sel <= vacEnd) {
            lblMessage.Text = $"<strong>Ganpati Vacation:</strong> {sel:dd MMM
            yyyy} — Go to your village and worship Lord Ganesh";
            lblMessage.Style.Add("color", "blue");
        }
        else {
            lblMessage.Text = ""; // clear when non-vacation day selected
        }
    }
}
```

Output :-



NAME:Samiksha Halve

SAMIKSHA HALVE – 14

PRACTICAL N0 – 4

Q4. B) Create Web Form to demonstrate use of Adrotator Control.

Ans :-

Design :

Source Code :-

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="Adrotator_4_b.aspx.cs" Inherits="Pract_4_a.Adrotator_4_b" %>


<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
     <title>AdRotator Example</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:AdRotator
                ID="AdRotator1"
                runat="server"
                AdvertisementFile="~/Images/XMLFile1.xml"
                Target="_blank"
                ImageWidth="200px"
                ImageHeight="150px"/>
            <br />
            <h4>NAME: Samiksha Halve</h4>
        </div>
    </form>
</body>
</html>
```

Code :-

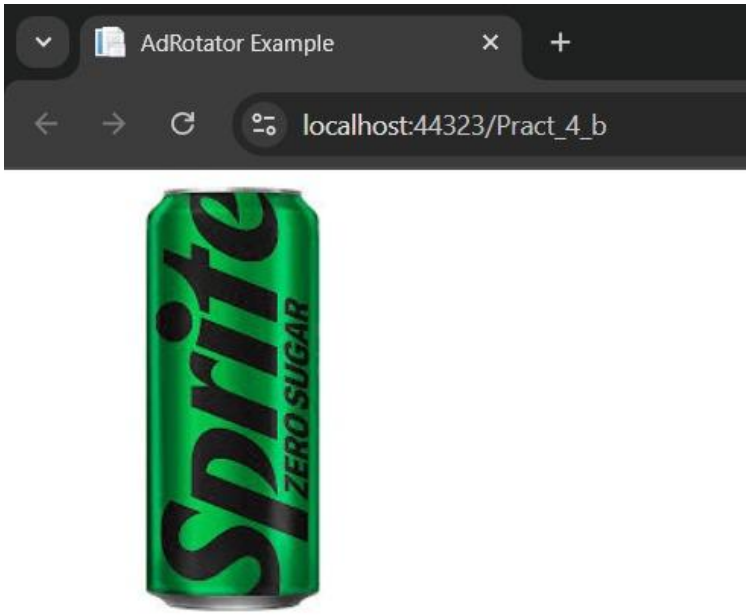
```
using System;
using System.Web.UI;
namespace Pract_4_a {
    public partial class Adrotator_4_b : Page {
        protected void Page_Load(object sender, EventArgs e){
            // No code needed, AdRotator automatically loads ads from XML
        }
    }
}
```

XML file :-

```
<?xml version="1.0" encoding="utf-8"?>
<Advertisements>
    <Ad>
        <ImageUrl>~/Images/fanta.jpeg</ImageUrl>
        <Impressions>1</Impressions>
    <NavigateUrl>https://www.coca-colacompany.com/</NavigateUrl>
        <AlternateText>Coke image is missing</AlternateText>
        <Keyword>Coke</Keyword>
    </Ad>

    <Ad>
        <ImageUrl>~/Images/fanta.jpeg</ImageUrl>
        <Impressions>5</Impressions>
        <NavigateUrl>https://strockscollege.in/</NavigateUrl>
        <AlternateText>Frooti image is missing</AlternateText>
        <Keyword>Frooti</Keyword>
    </Ad>
    <Ad>
        <ImageUrl>~/Images/sprite.jpeg</ImageUrl>
        <Impressions>1</Impressions>
        <NavigateUrl>https://www.pepsi.com/</NavigateUrl>
```

```
        <AlternateText>Pepsi image is missing</AlternateText>
        <Keyword>Pepsi</Keyword>
      </Ad>
    </Advertisements>
```

Output :-



NAME: Samiksha Halve

Q4. C) Create Web Form to demonstrate use User Controls.

Ans :-

Design :

Source Code :-

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Simple Page Example</title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <!-- Input fields -->
      <asp:Label ID="LblName" runat="server" Text="Enter your name: " />
      <asp:TextBox ID="TxtName" runat="server"></asp:TextBox>
      <br /><br />
      <asp:Label ID="LblCity" runat="server" Text="Enter your city: " />
      <asp:TextBox ID="TxtCity" runat="server"></asp:TextBox>
      <br /><br />

      <!-- Button -->
      <asp:Button ID="BtnSubmit" runat="server" Text="Submit"
      OnClick="BtnSubmit_Click" />
      <br /><br />

      <!-- Output -->
      <asp:Label ID="LblOutput" runat="server" Font-Bold="true" ForeColor="Blue" />
```

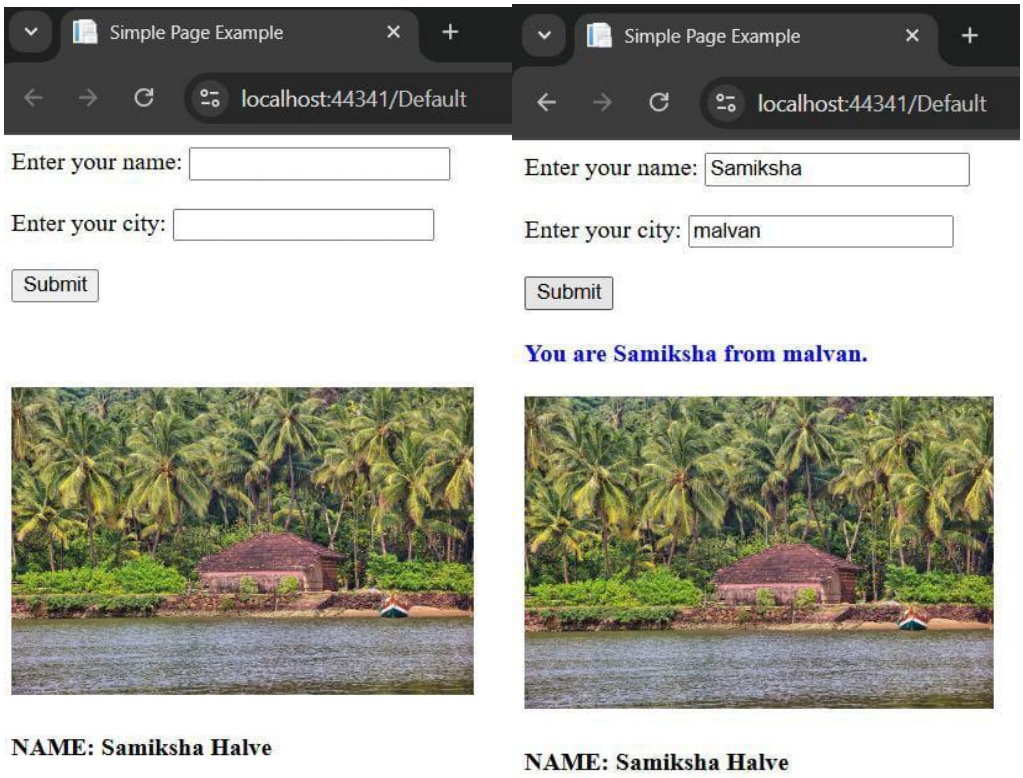
```
            <br /><br />
            <!-- Static Image -->
            <asp:Image
                ID="Image1"
                runat="server"
                ImageUrl="~/Images/malvan.jpg"
                Width="300px"
                Height="200px" />
            <br />

            <h4>NAME: Samiksha Halve</h4>
        </div>
    </form>
</body>
</html>
```

Code :-

```
using System;
using System.Web.UI;

namespace VacationApp {
    public partial class Default : Page {
        protected void Page_Load(object sender, EventArgs e) {
            // Nothing needed here for now
        }

        protected void BtnSubmit_Click(object sender, EventArgs e){
            string name = TxtName.Text.Trim();
            string city = TxtCity.Text.Trim();
                if (!string.IsNullOrEmpty(name) && !string.IsNullOrEmpty(city)){
                    LblOutput.Text = $"You are {name} from {city}.";
                }
```

```
            else {
                LblOutput.Text = "Please enter both name and city.";
            }
        }
    }
}
```

Output :-



SAMIKSHA HALVE – 14

PRACTICAL N0 – 5

Q8. B) Create a web application for user defined exception handling.

Ans :-

Design :

Source Code :-

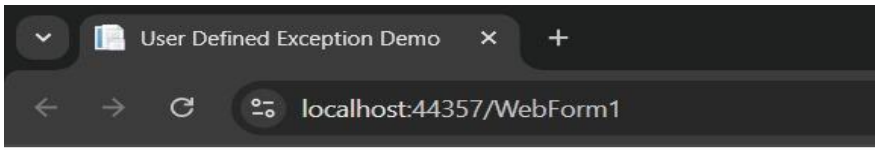
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="New_Pract_8_b.WebForm1" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>User Defined Exception Demo</title>
</head>
<body>
   <form id="form1" runat="server">
      <h2>Samiksha Halve</h2>
       <div>
          <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
          <br /><br />
           <asp:Label ID="Label2" runat="server" Text=""></asp:Label>
       </div>
   </form>
</body>
</html>
```

Code :-

```
using System;
using System.Web.UI;
namespace New_Pract_8_b {
    public partial class WebForm1 : Page {
        protected void Page_Load(object sender, EventArgs e) {
```

```
            try {
                // Throwing the custom exception
                throw new UserDefinedException("New User Defined Exception");
            }
            catch (UserDefinedException ex) // Catching the custom exception {
                Label1.Text = "<b>Exception caught here: </b>" + ex.Message;
            }
            catch (Exception ex) // Catching any other exceptions {
                 Label1.Text = "<b>Exception caught here: </b>" + ex.ToString();
            }
            finally {
                    // Final statement
                    Label2.Text = "Final Statement that is executed";
            }
        }
    }
    // Custom exception class
    public class UserDefinedException : Exception {
        public UserDefinedException(string message) : base(message) {
            // Optionally log the exception message or perform other actions
        }
    }
}
```

Output :-



Samiksha Halve

Exception caught here: New User Defined Exception

Final Statement that is executed