

PRACTICAL – 2A

AIM: Create a simple application to demonstrate the concepts boxing and unboxing.

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: SHEKHAR SUMAN");
            Console.WriteLine("ROLL NO: 47\n");

            // Boxing: Converting a value type (int) to an object
            int num = 123; // Value type
            object obj = num; // Boxing - num is converted to an object
            obj = 145;

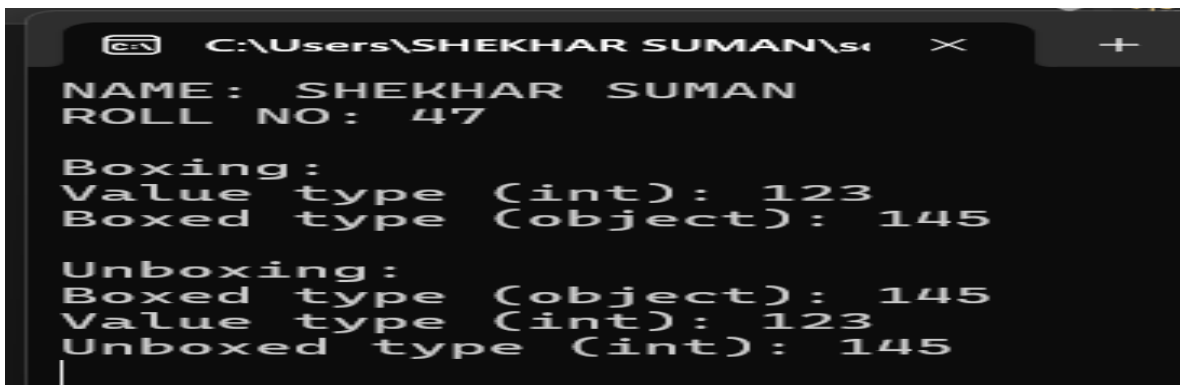
            // Display the boxed value
            Console.WriteLine("Boxing:");
            Console.WriteLine($"Value type (int): {num}");
            Console.WriteLine($"Boxed type (object): {obj}");

            // Unboxing: Converting an object back to a value type
            int unboxedNum = (int)obj; // Unboxing - obj is converted back to an int

            // Display the unboxed value
            Console.WriteLine("\nUnboxing:");
            Console.WriteLine($"Boxed type (object): {obj}");
            Console.WriteLine($"Value type (int): {num}");
            Console.WriteLine($"Unboxed type (int): {unboxedNum}");

            Console.ReadKey();
        }
    }
}
```

OUTPUT



```
C:\Users\SHEKHAR SUMAN\src X +
NAME: SHEKHAR SUMAN
ROLL NO: 47

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

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

PRACTICAL – 3B

AIM: Create a simple application to demonstrate your vacation using calendar control.

CODE

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

namespace Practical_3
{
    public partial class Pract_3bb : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

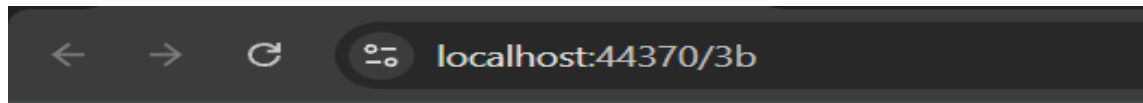
        }

        protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
        {
            // Mark vacation between 7th and 12th September 2025
            if ((e.Day.Date >= new DateTime(2025, 09, 7)) && (e.Day.Date <= new DateTime(2025, 09, 12)))
            {
                e.Cell.BackColor = System.Drawing.Color.Navy;
                e.Cell.BorderColor = System.Drawing.Color.Black;
                e.Cell.ForeColor = System.Drawing.Color.White;
                e.Cell.BorderWidth = new Unit(3);

                if (e.Day.Date == new DateTime(2025, 09, 7))
                {
                    e.Cell.Controls.Add(new LiteralControl("<br> Ganpati Vacation Start"));
                }
                if (e.Day.Date == new DateTime(2025, 09, 12))
                {
                    e.Cell.Controls.Add(new LiteralControl("<br> Ganpati Vacation End"));
                }
            }
        }

        protected void Calendar1_SelectionChanged(object sender, EventArgs e)
        {
            if (Calendar1.SelectedDate.Date >= new DateTime(2025, 09, 7) &&
                Calendar1.SelectedDate.Date <= new DateTime(2025, 09, 12))
            {
                Response.Write("<br><h1>Ganpati Vacation..... Go to your village and worship Lord
Ganesh</h1><br>");
            }
        }
    }
}
```

OUTPUT



<u>August</u>		September 2025					<u>October</u>
>>	Sun	Mon	Tue	Wed	Thu	Fri	Sat
>	31	1	2	3	4	5	6
>	Type words to search for						
>	Ganpati Vacation Start	8	9	10	11	12 Ganpati Vacation End	13
>	14	15	16	17	18	19	20
>	21	22	23	24	25	26	27
>	28	29	30	1	2	3	4
>	5	6	7	8	9	10	11

NAME: SHEKHAR SUMAN

ROLL NO: 47

PRACTICAL – 4B

AIM: Create Web Form to demonstrate use of Adrotator Control.

Design

```
<%@ Page Language="C#" AutoEventWireup="true"
    CodeBehind="Adrotator4b.aspx.cs"
    Inherits="Pract_4_a.Adrotator4b" %>

<!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="~/XMLFile1.xml" />
            <br />
            <h4>NAME: SHEKHAR SUMAN</h4>
        </div>
    </form>
</body>
</html>
```

CODE

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

namespace Pract_4_a
{
    public partial class Adrotator4b : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            // No custom logic needed right now
        }
    }
}
```

XML FILES

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

    <Ad>
        <ImageUrl>~/Images/Frooti.jpg</ImageUrl>
        <Impressions>5</Impressions>
        <NavigateUrl>https://gdjalan.edu.in/commercefaculty-degree-college/</NavigateUrl>
        <AlternateText>Frooti image is missing</AlternateText>
        <Keyword>Frooti</Keyword>
    </Ad>
</Advertisements>
```

</Ad>

<Ad>

<ImageUrl>~/Images/Pepsi.jpg</ImageUrl>

<Impressions>1</Impressions>

<NavigateUrl>https://www.pepsi.com/</NavigateUrl>

<AlternateText>Pepsi image is missing</AlternateText>

<Keyword>Pepsi</Keyword>

</Ad>

</Advertisements>

OUTPUT



NAME: Shekhar suman

PRACTICAL – 4C

AIM: Create Web Form to demonstrate use User Controls.

Design

```
<%@ Page Language="C#" AutoEventWireup="true"
    CodeBehind="4C.aspx.cs" Inherits="Pract_4_a._4C" %>

<%@ Register src="WebUserControl1.ascx" tagname="MyControl"
    tagprefix="user" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <user:MyControl ID="WebUserControl1" runat="server" />
        <div>
            <br />
            <br />
            <asp:Image ID="Image1" runat="server"
                ImageUrl="~/Images/nature.jpeg" />
            <br />
            <h4>NAME: Alister Quinny</h4>
        </div>
    </form>
</body>
</html>
```

Code

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace Pract_4_c
{
    public partial class _4C : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
    }
}
```



This is User Control

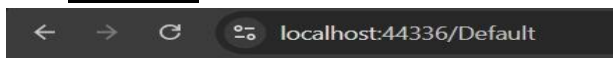
Enter Name:

Enter City:



NAME: Shekhar Suman

OUTPUT



This is User Control

Enter Name:

Enter City:

Hello Shekhar from Bihari!



NAME: Shekhar Suman

PRACTICAL – 8B

AIM: Create a web application for user defined exception handling.

Design

```
<%@ 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></title>
</head>
<body>
    <form id="form1" runat="server">
        <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.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace New_Pract_8_b
{
    public partial class WebForm1 : System.Web.UI.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();
            }

            // Final statement
        }
    }
}
```



```
    Label2.Text = "Final Statement that is executed";  
}  
  
// Custom exception class  
class UserDefinedException : Exception  
{  
    public UserDefinedException(string message) : base(message)  
    {  
        // Optionally log the exception message or perform other actions  
    }  
}  
}
```

OUTPUT



Exception caught here: New User Defined Exception

Final Statement that is executed

Shekhar Suman-47

CERTIFICATE

Class: **T.Y.B.Sc.I.T.**

Year: **2025 - 2026**

This is to certify that work entered in this Journal is the work of
Shri / ~~Kumari~~: **SHEKHAR SUMAN**.

of **T.Y.B.Sc.I.T** division _____ Roll No. **47**.

Uni. Exam No. _____ has satisfactorily completed the

Required number of practical and worked for the **5TH** Semester

Of the year **2025 - 2026** in the college laboratory as laid down

By the university.

Head of the
Department

External
Examiner

Internal Examiner
Subject teacher

Date: