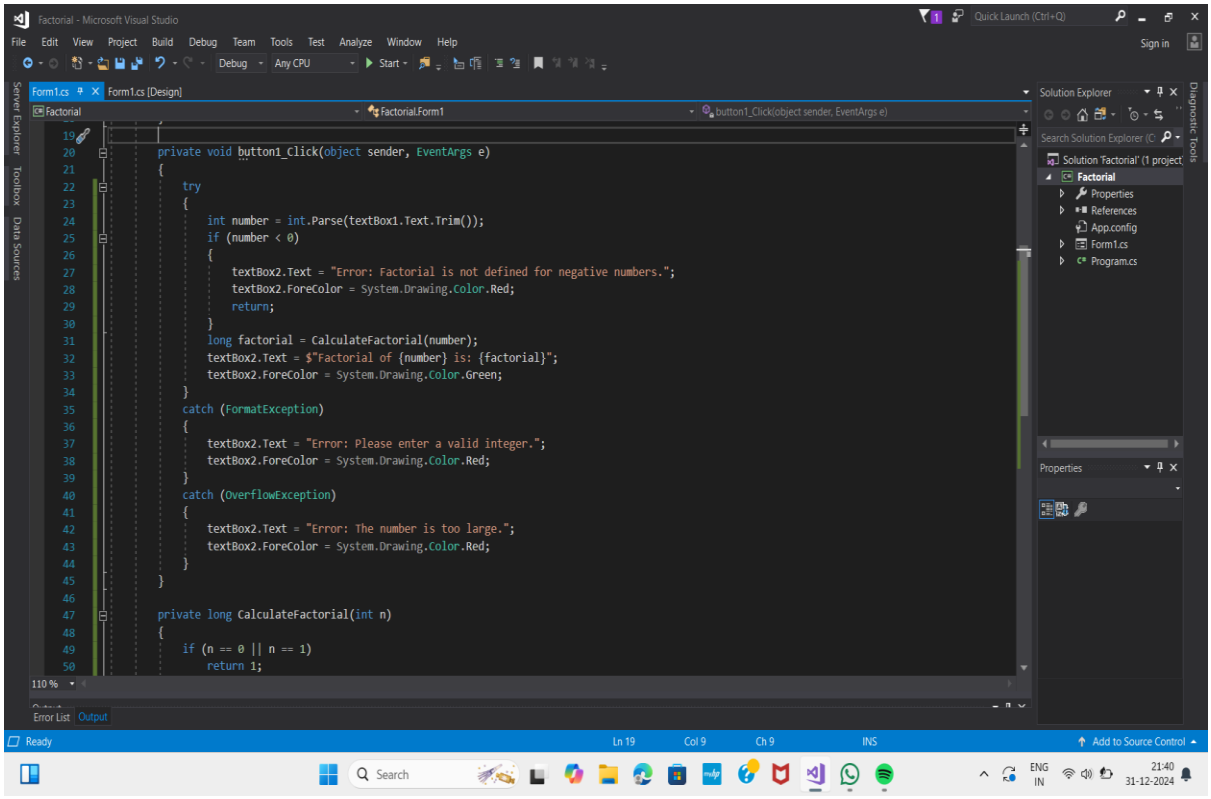
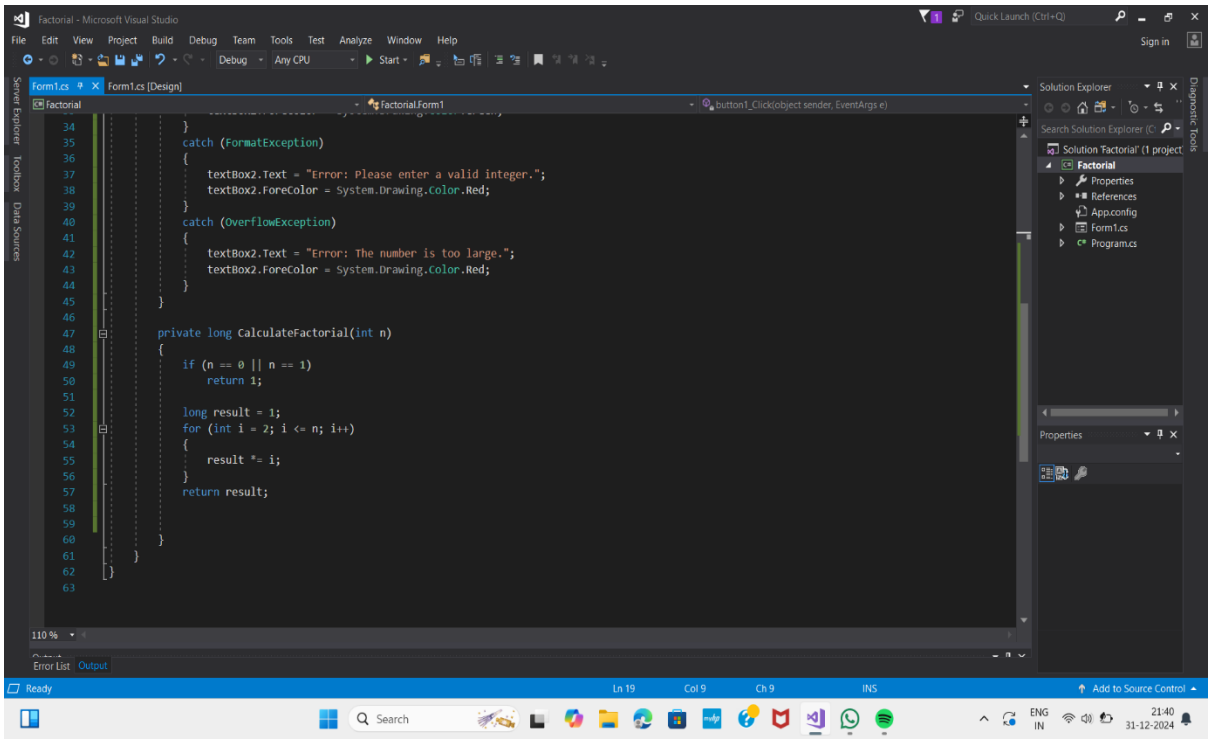
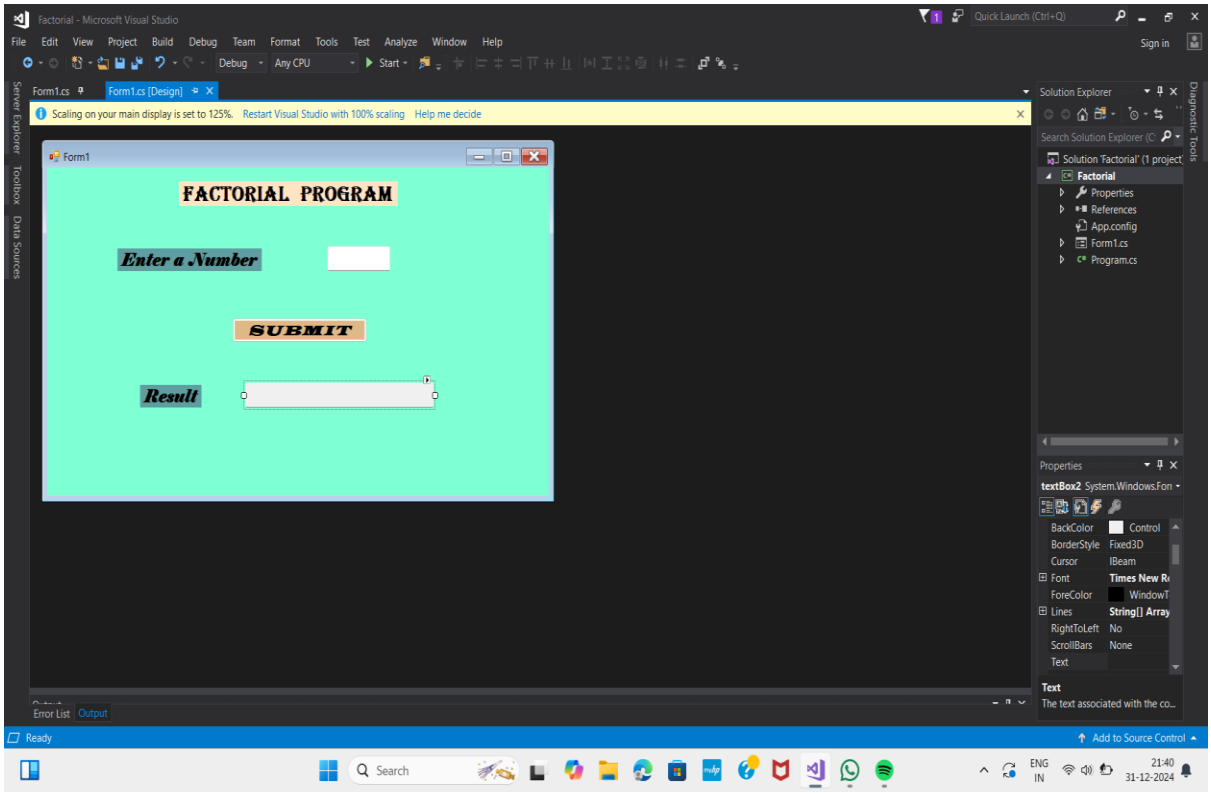
FACTORIAL PROGRAM

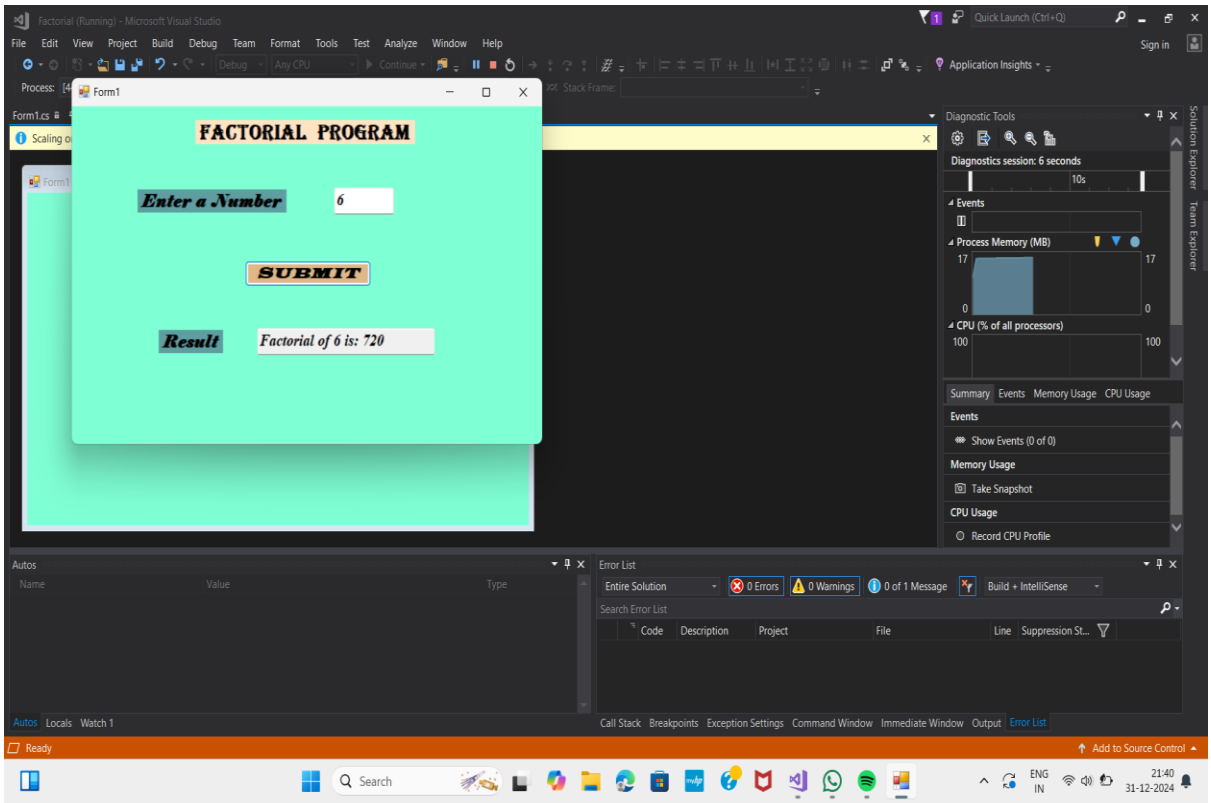



```
private void button1_Click(object sender, EventArgs e)
{
    try
    {
        int number = int.Parse(textBox1.Text.Trim());
        if (number < 0)
        {
            textBox2.Text = "Error: Factorial is not defined for negative numbers.";
            textBox2.ForeColor = System.Drawing.Color.Red;
            return;
        }
        long factorial = CalculateFactorial(number);
        textBox2.Text = $"Factorial of {number} is: {factorial}";
        textBox2.ForeColor = System.Drawing.Color.Green;
    }
    catch (FormatException)
    {
        textBox2.Text = "Error: Please enter a valid integer.";
        textBox2.ForeColor = System.Drawing.Color.Red;
    }
    catch (OverflowException)
    {
        textBox2.Text = "Error: The number is too large.";
        textBox2.ForeColor = System.Drawing.Color.Red;
    }
}

private long CalculateFactorial(int n)
{
    if (n == 0 || n == 1)
        return 1;
```

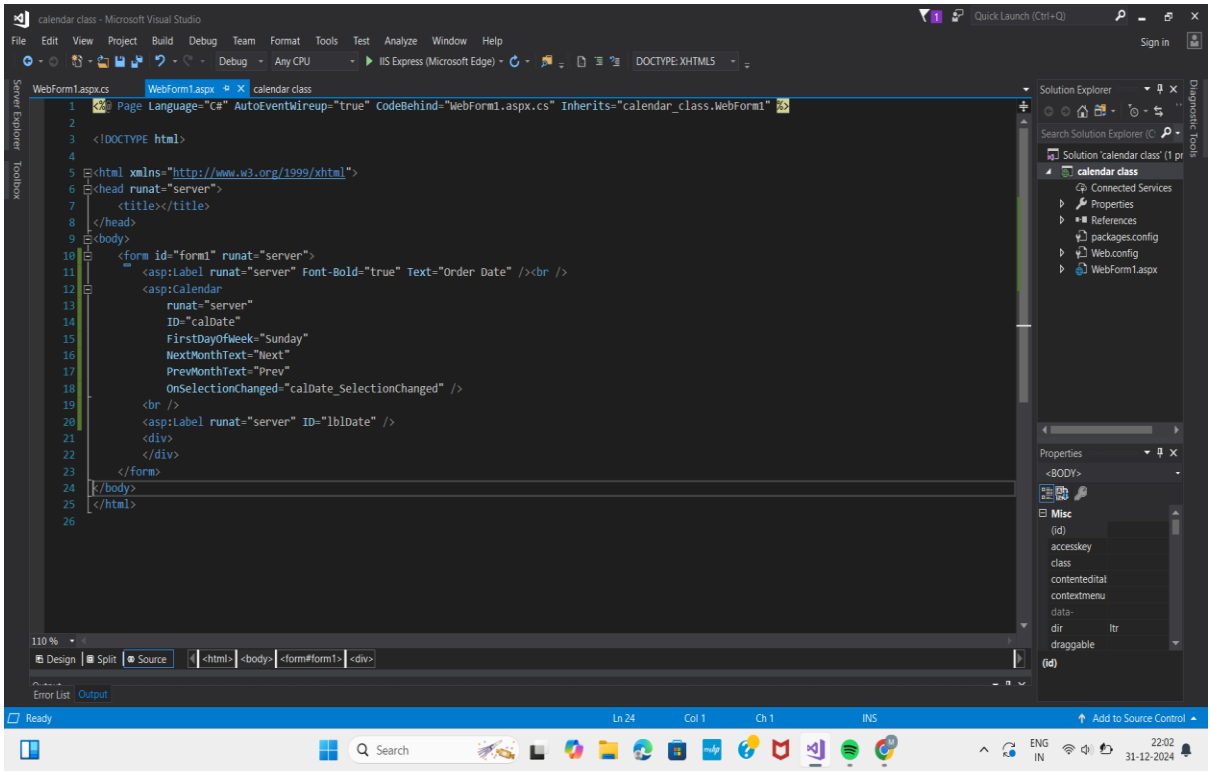


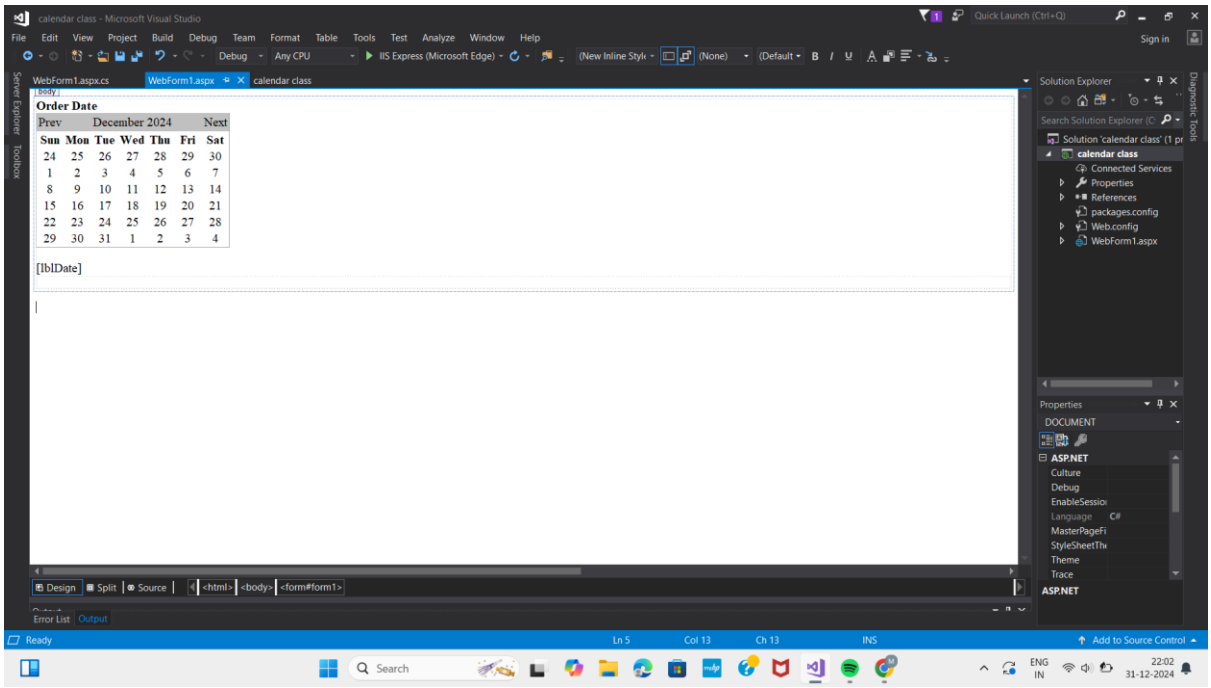

```
    }
    catch (FormatException)
    {
        textBox2.Text = "Error: Please enter a valid integer.";
        textBox2.ForeColor = System.Drawing.Color.Red;
    }
    catch (OverflowException)
    {
        textBox2.Text = "Error: The number is too large.";
        textBox2.ForeColor = System.Drawing.Color.Red;
    }
}

private long CalculateFactorial(int n)
{
    if (n == 0 || n == 1)
        return 1;

    long result = 1;
    for (int i = 2; i <= n; i++)
    {
        result *= i;
    }
    return result;


}
}
}
```

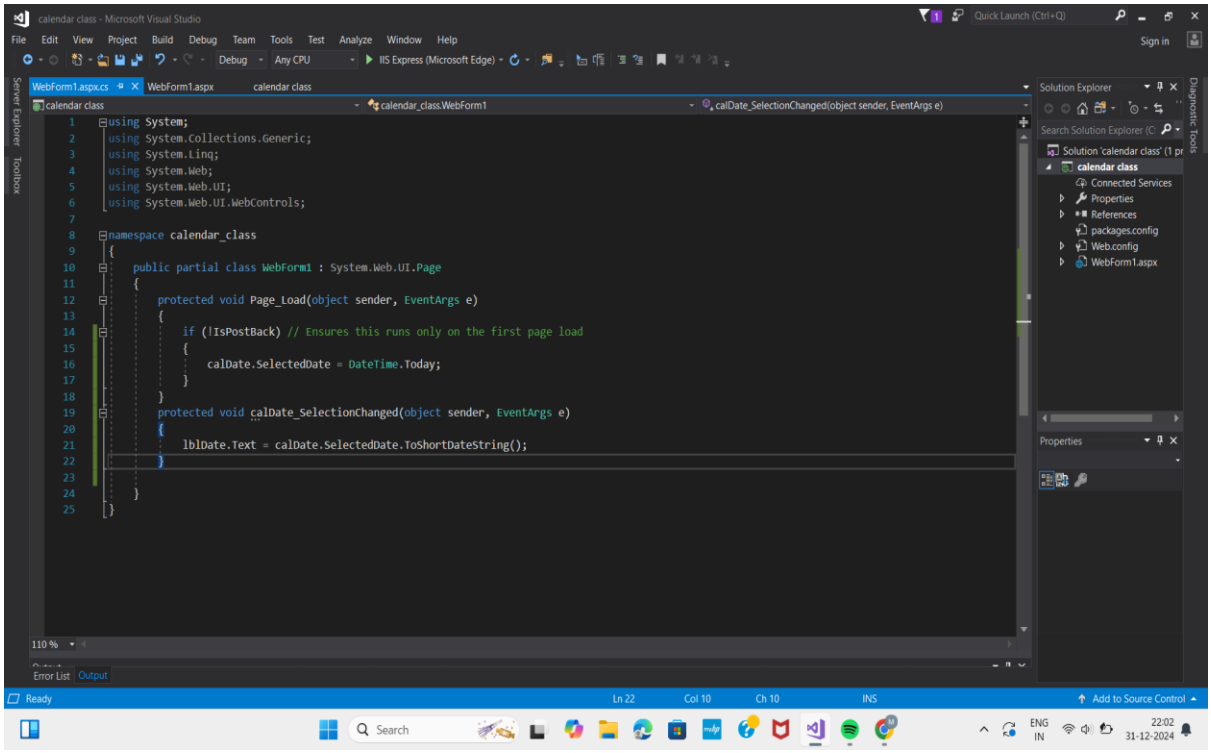

Factorial - Microsoft Visual Studio
Form1
FACTORIAL PROGRAM
Enter a Number
SUBMIT
Result
Solution Explorer
Properties
Ready

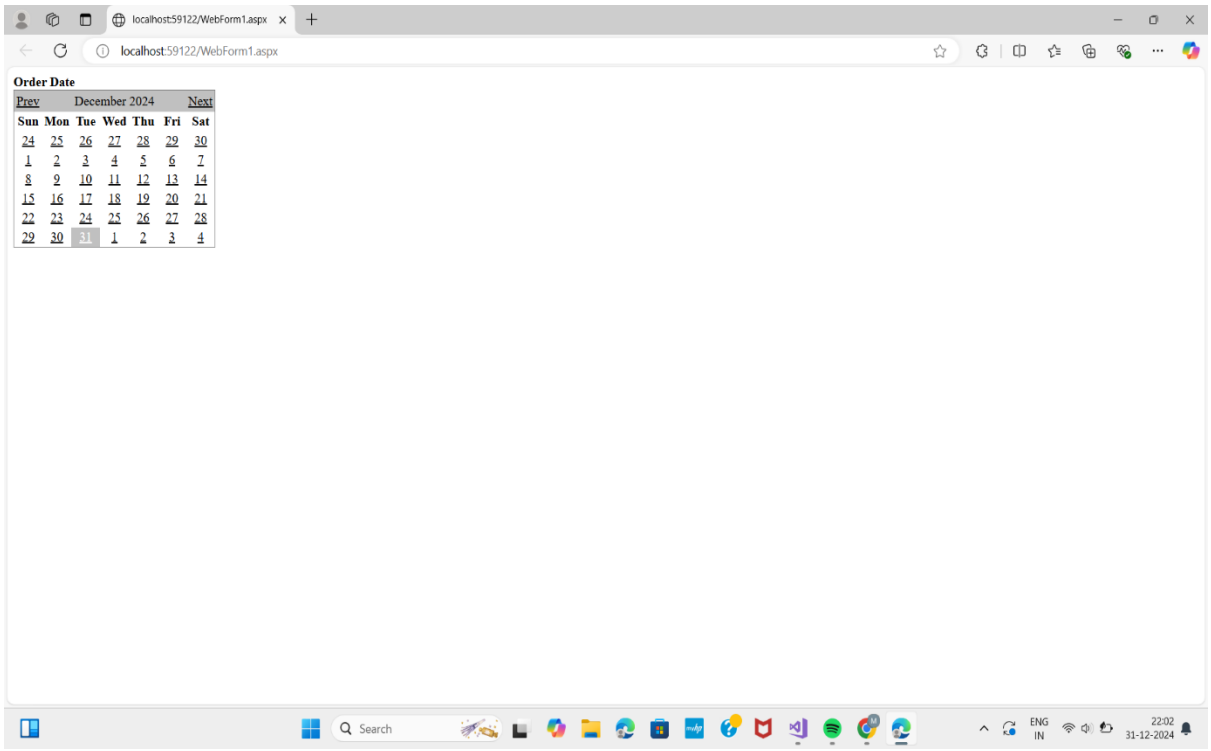

Factorial (Running) - Microsoft Visual Studio
Form1
FACTORIAL PROGRAM
Enter a Number
6
SUBMIT
Result
Factorial of 6 is: 720
Diagnostic Tools
Ready

CALENDAR CLASS PROGRAM

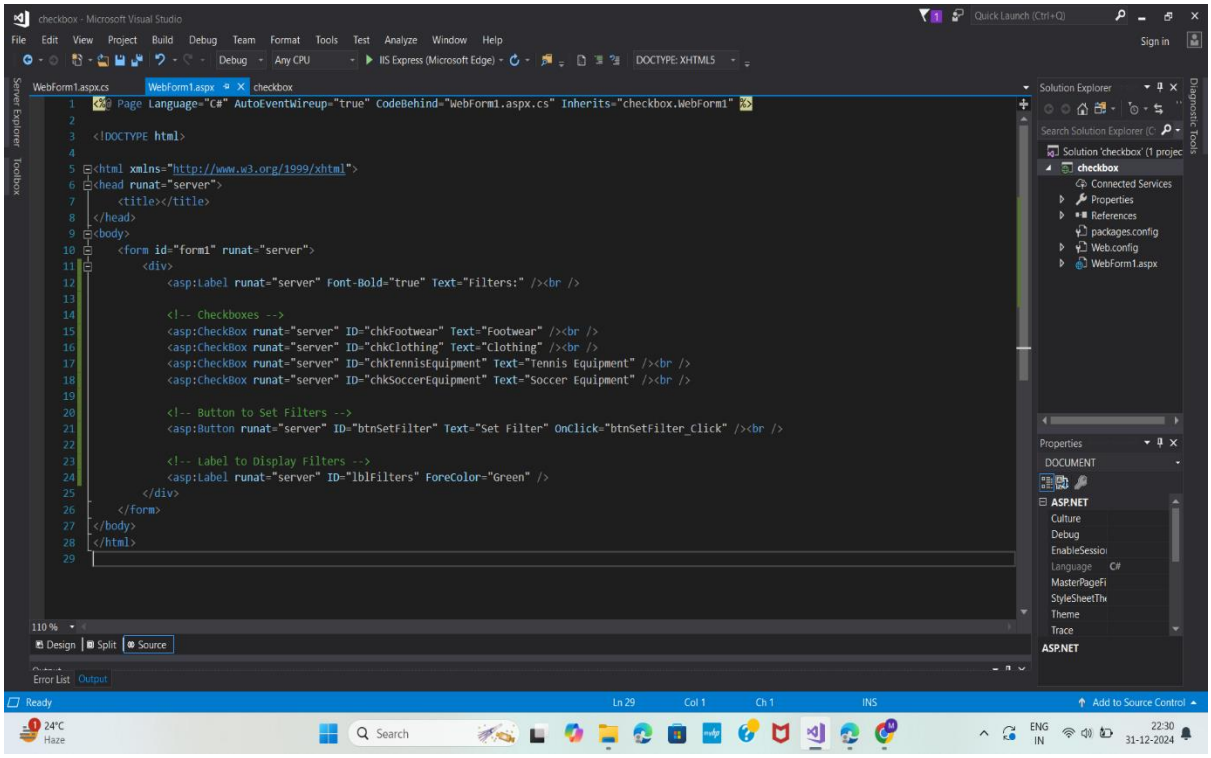


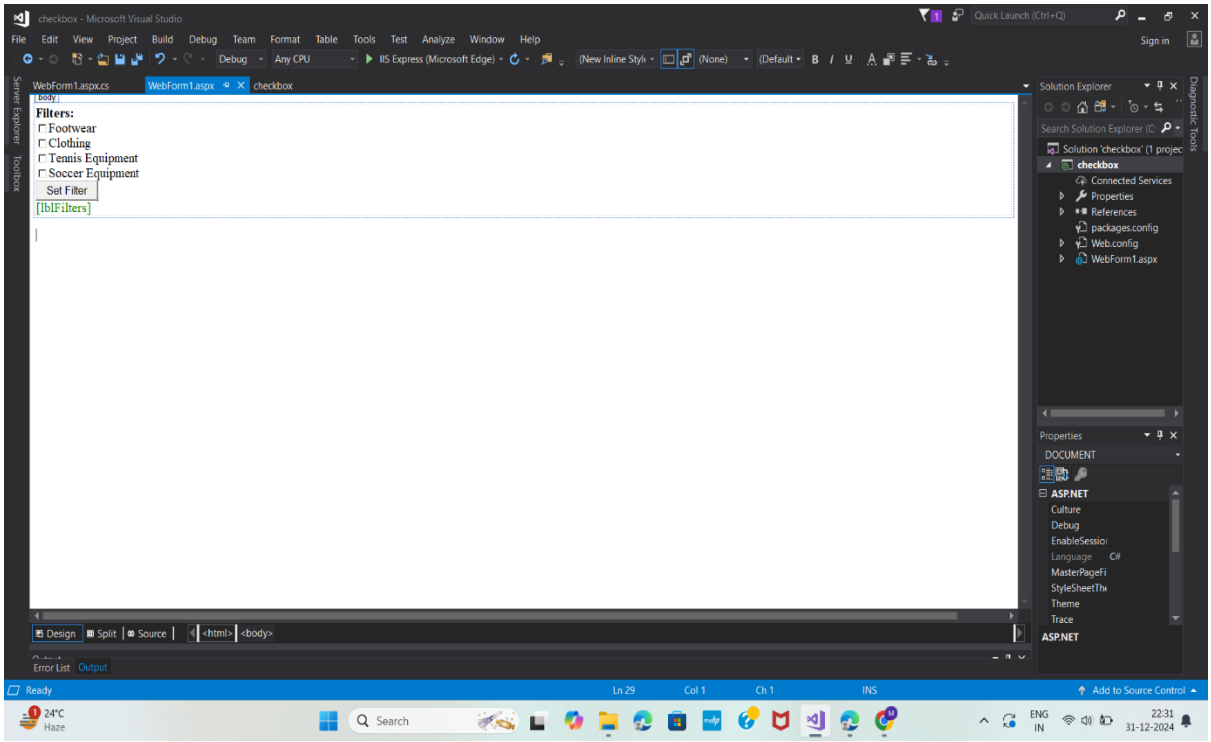


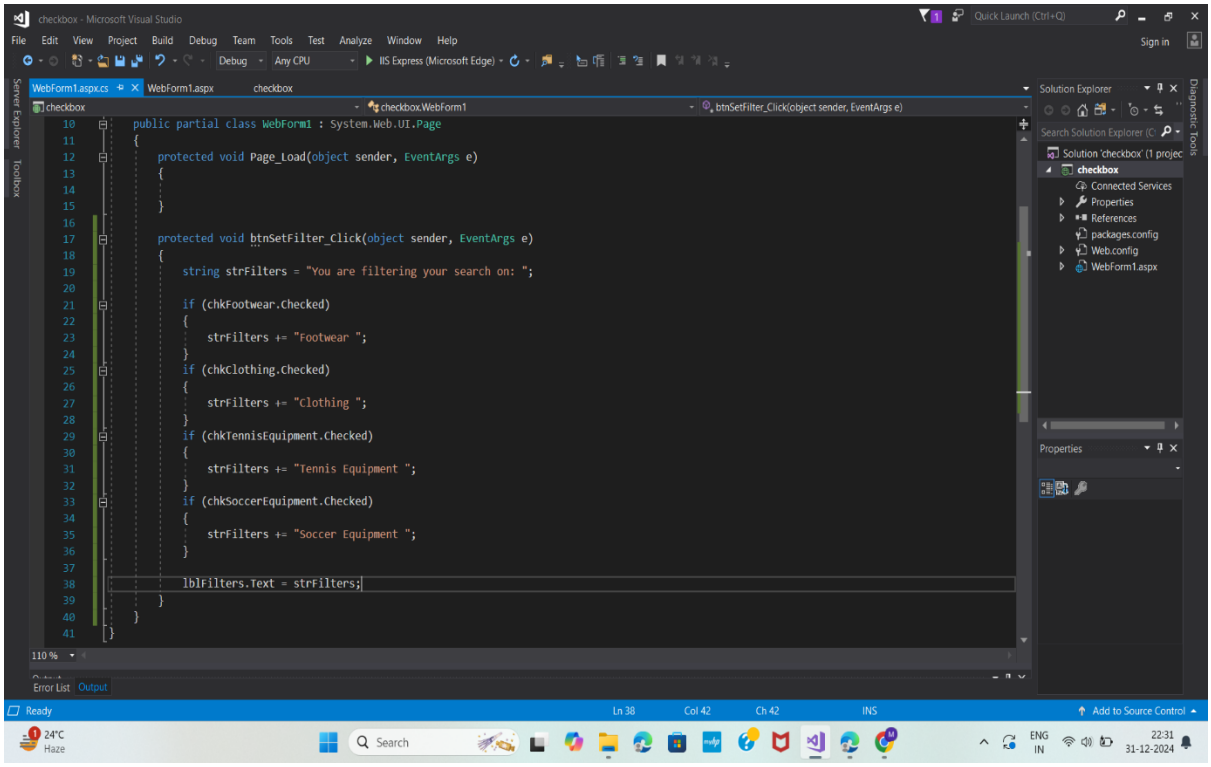

calendar class - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Test Analyze Window Help
Debug Any CPU IIS Express (Microsoft Edge)
WebForm1.aspx.cs WebForm1.aspx calendar class
calendar class calendar_class.WebForm1 calDate_SelectionChanged(object sender, EventArgs e)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace calendar_class
{
public partial class WebForm1 : System.Web.UI.Page
{
protected void Page_Load(object sender, EventArgs e)
{
if (!IsPostBack) // Ensures this runs only on the first page load
{
calDate.SelectedDate = DateTime.Today;
}
}
protected void calDate_SelectionChanged(object sender, EventArgs e)
{
lblDate.Text = calDate.SelectedDate.ToShortDateString();
}
}
}
Solution Explorer
Solution 'calendar class' (1 pr
calendar class
Connected Services
Properties
References
packages.config
Web.config
WebForm1.aspx
Properties
110 %
Error List Output
Ready Ln 22 Col 10 Ch 10 INS Add to Source Control
Search
ENG IN
22:02 31-12-2024

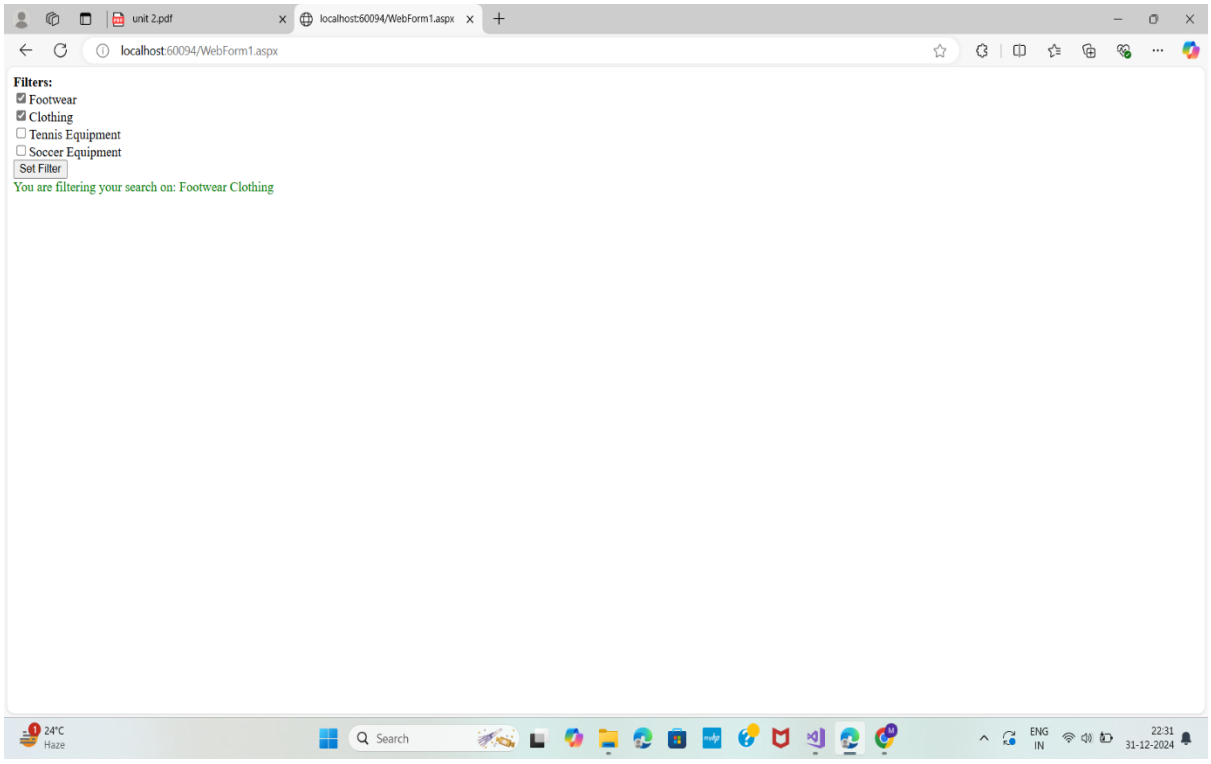

localhost:59122/WebForm1.aspx
localhost:59122/WebForm1.aspx
Order Date
Prev December 2024 Next
Sun Mon Tue Wed Thu Fri Sat
24 25 26 27 28 29 30
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4
Search
ENG IN
22:02 31-12-2024

CHECKBOX PROGRAM

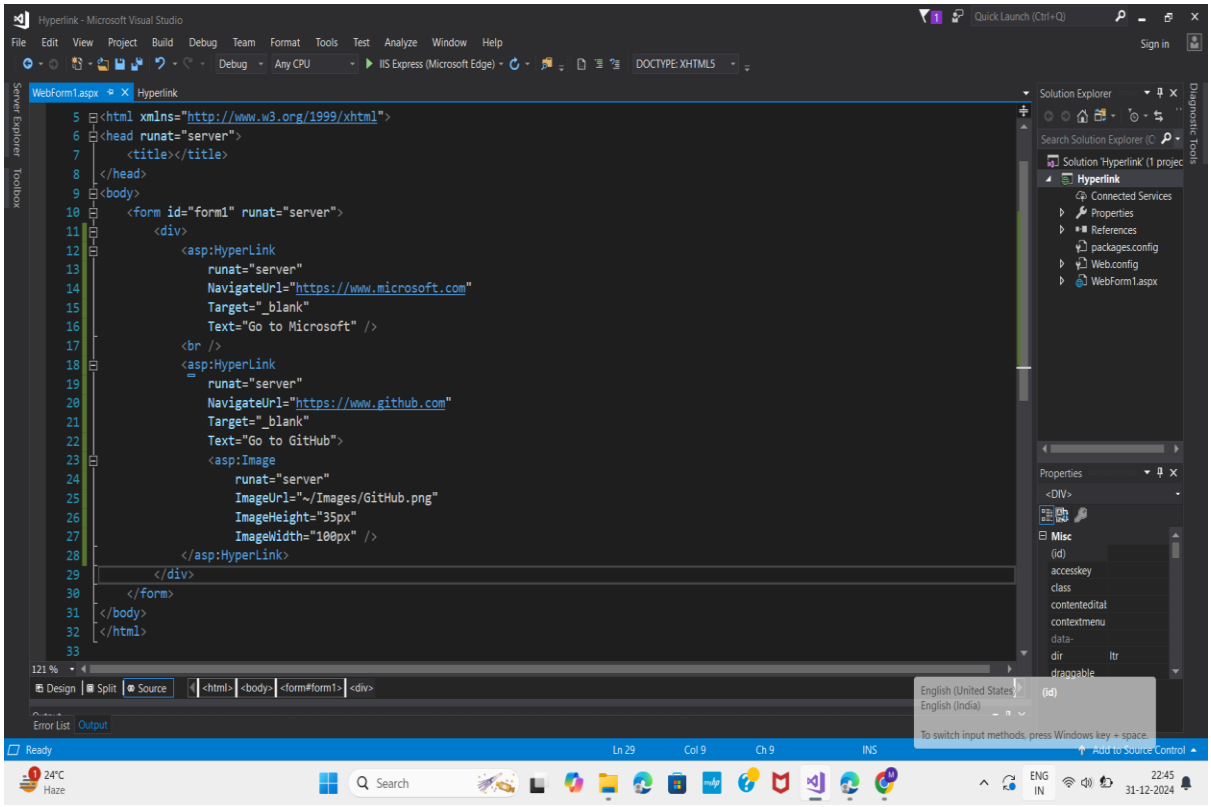


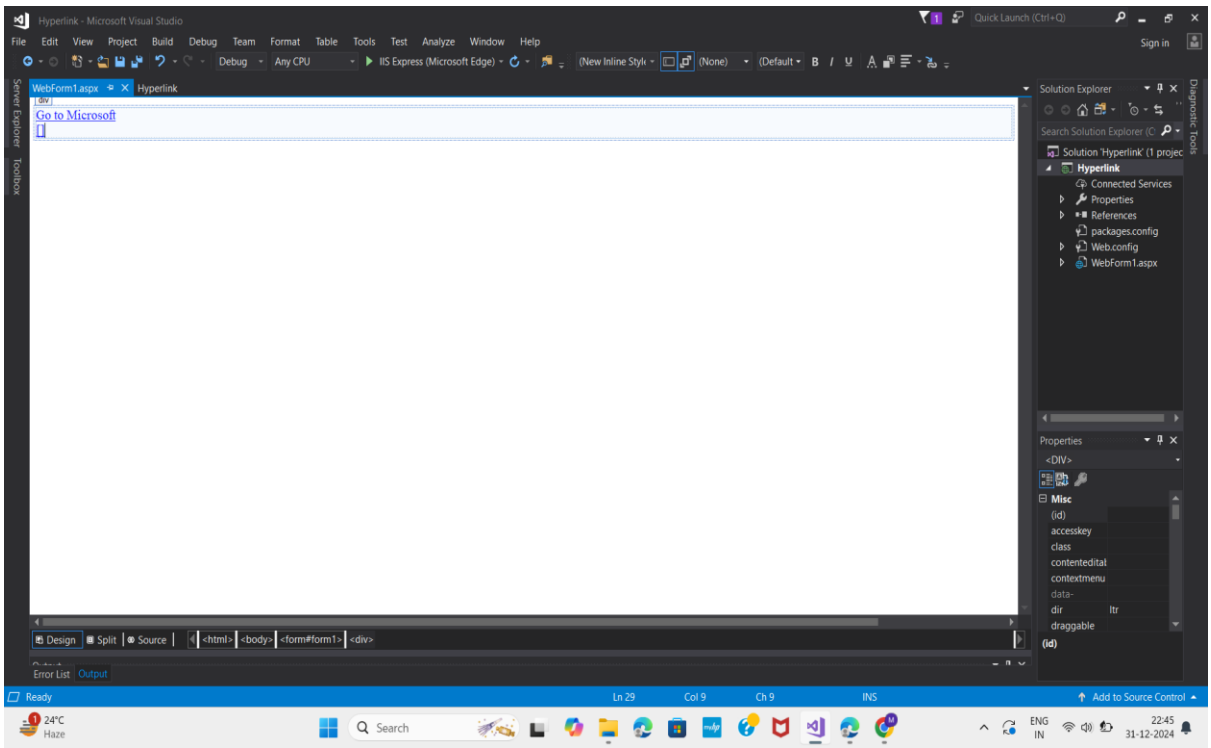


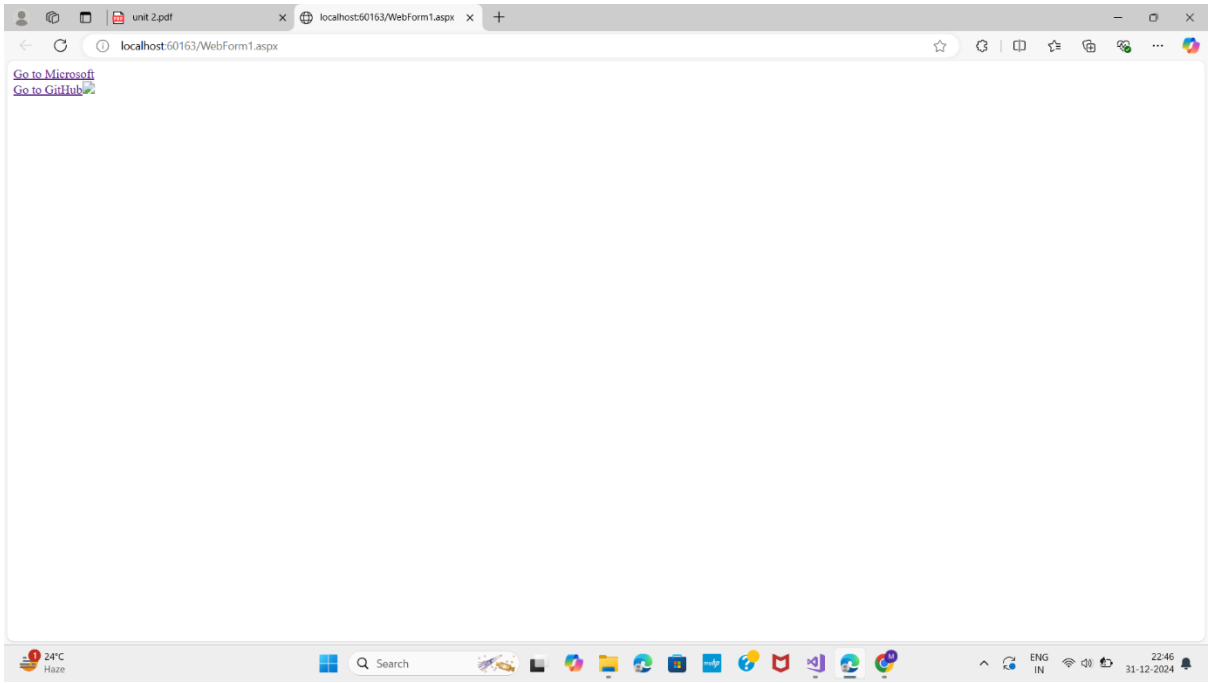

checkbox - Microsoft Visual Studio
WebForm1.aspx.cs
WebForm1.aspx
checkbox
checkbox.WebForm1
btnSetFilter_Click(object sender, EventArgs e)
public partial class WebForm1 : System.Web.UI.Page
{
protected void Page_Load(object sender, EventArgs e)
{
}
protected void btnSetFilter_Click(object sender, EventArgs e)
{
string strFilters = "You are filtering your search on: ";
if (chkFootwear.Checked)
{
strFilters += "Footwear ";
}
if (chkClothing.Checked)
{
strFilters += "Clothing ";
}
if (chkTennisEquipment.Checked)
{
strFilters += "Tennis Equipment ";
}
if (chkSoccerEquipment.Checked)
{
strFilters += "Soccer Equipment ";
}
lblFilters.Text = strFilters;
}
}
}
Solution Explorer
Properties
Ready
Ln 38
Col 42
Ch 42
INS
Add to Source Control

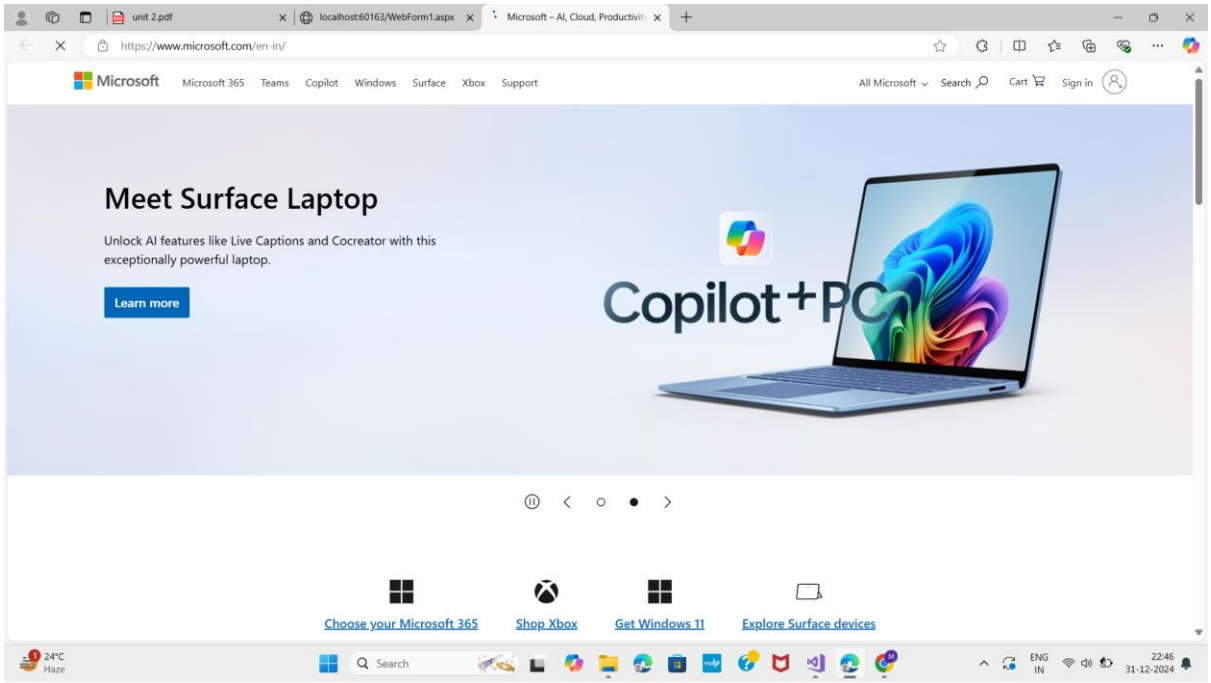

unit 2.pdf
localhost:60094/WebForm1.aspx
Filters:
Footwear
Clothing
Tennis Equipment
Soccer Equipment
Set Filter
You are filtering your search on: Footwear Clothing

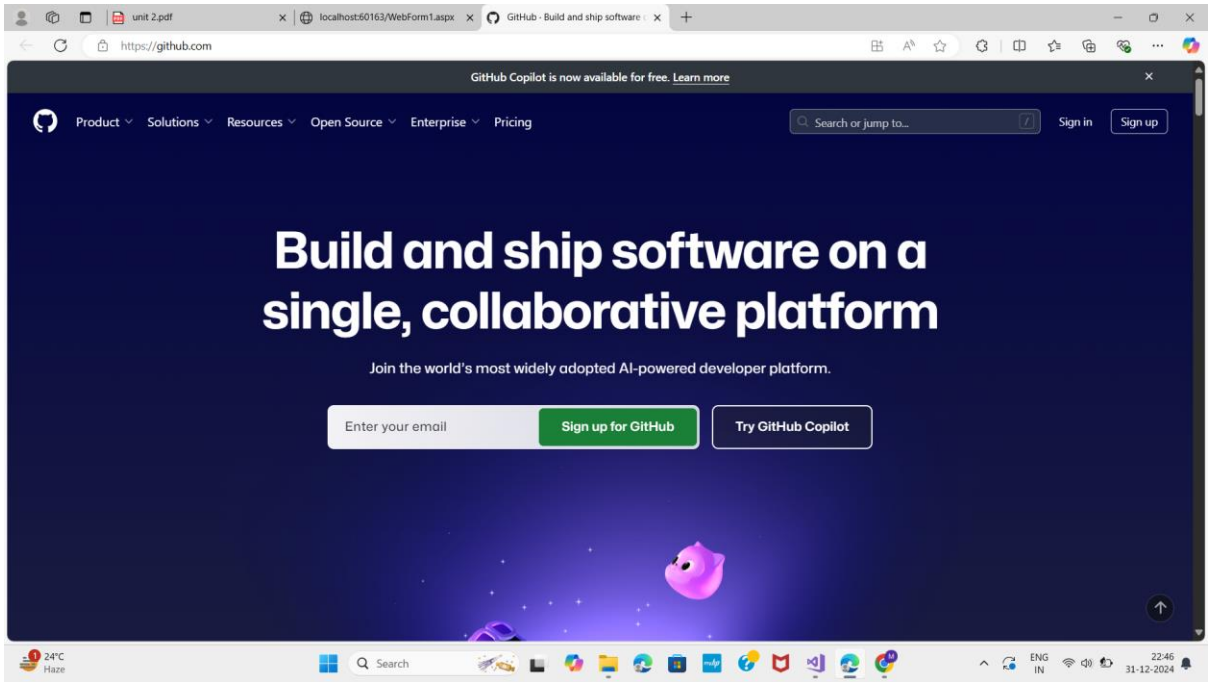
HYPERLINK PROGRAM



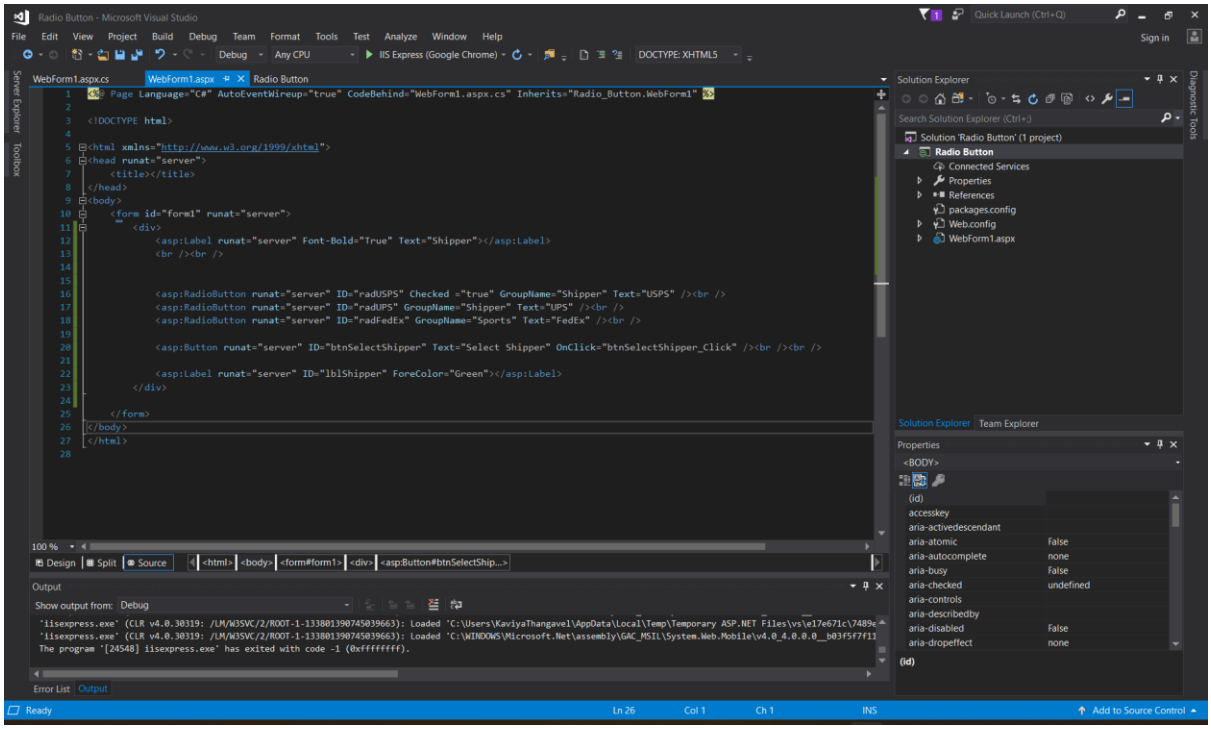


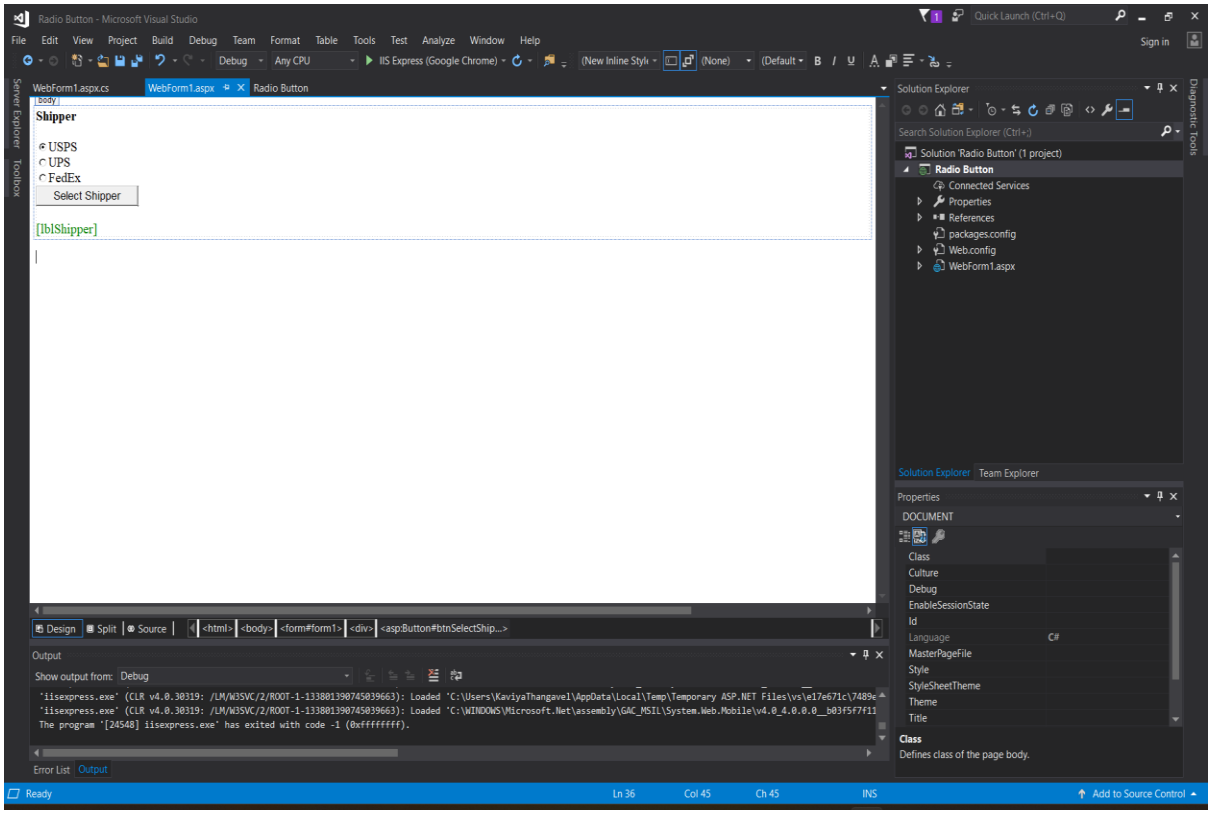

unit 2.pdf
localhost:60163/WebForm1.aspx
localhost:60163/WebForm1.aspx
Go to Microsoft
Go to GitHub
24°C
Haze
Search
ENG
IN
22:46
31-12-2024

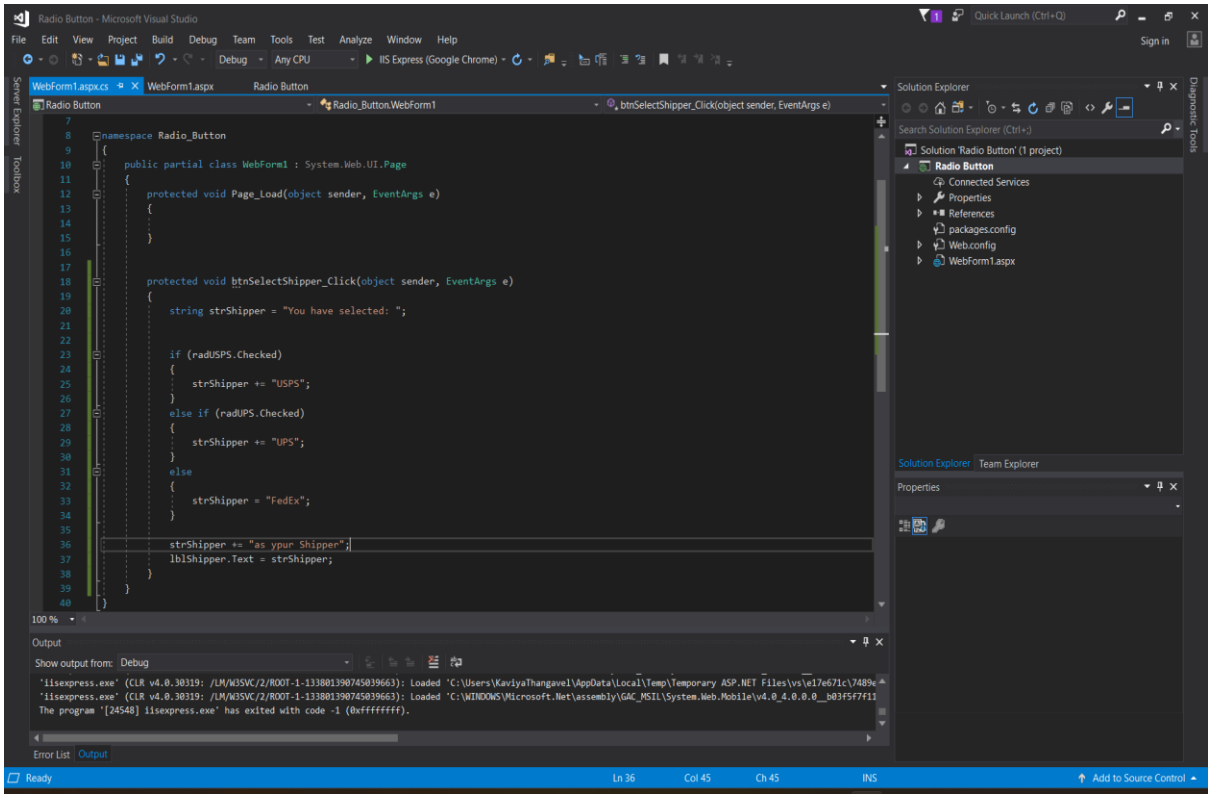

unit 2.pdf
localhost:60163/WebForm1.aspx
Microsoft – AI, Cloud, Productivit
https://www.microsoft.com/en-in/
Microsoft
Microsoft 365
Teams
Copilot
Windows
Surface
Xbox
Support
All Microsoft
Search
Cart
Sign in
Meet Surface Laptop
Unlock AI features like Live Captions and Cocreator with this exceptionally powerful laptop.
Learn more
Copilot+PC
Choose your Microsoft 365
Shop Xbox
Get Windows 11
Explore Surface devices
24°C
Haze
Search
ENG
IN
22:46
31-12-2024



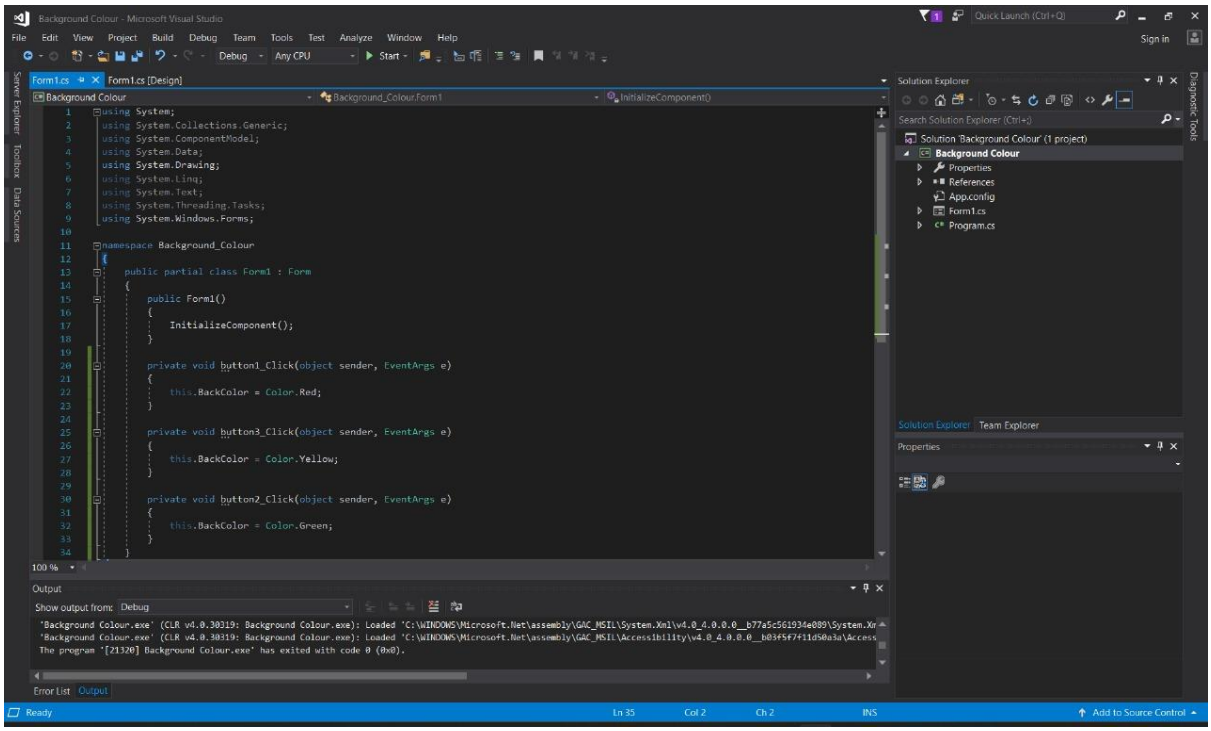
RADIO BUTTON PROGRAM

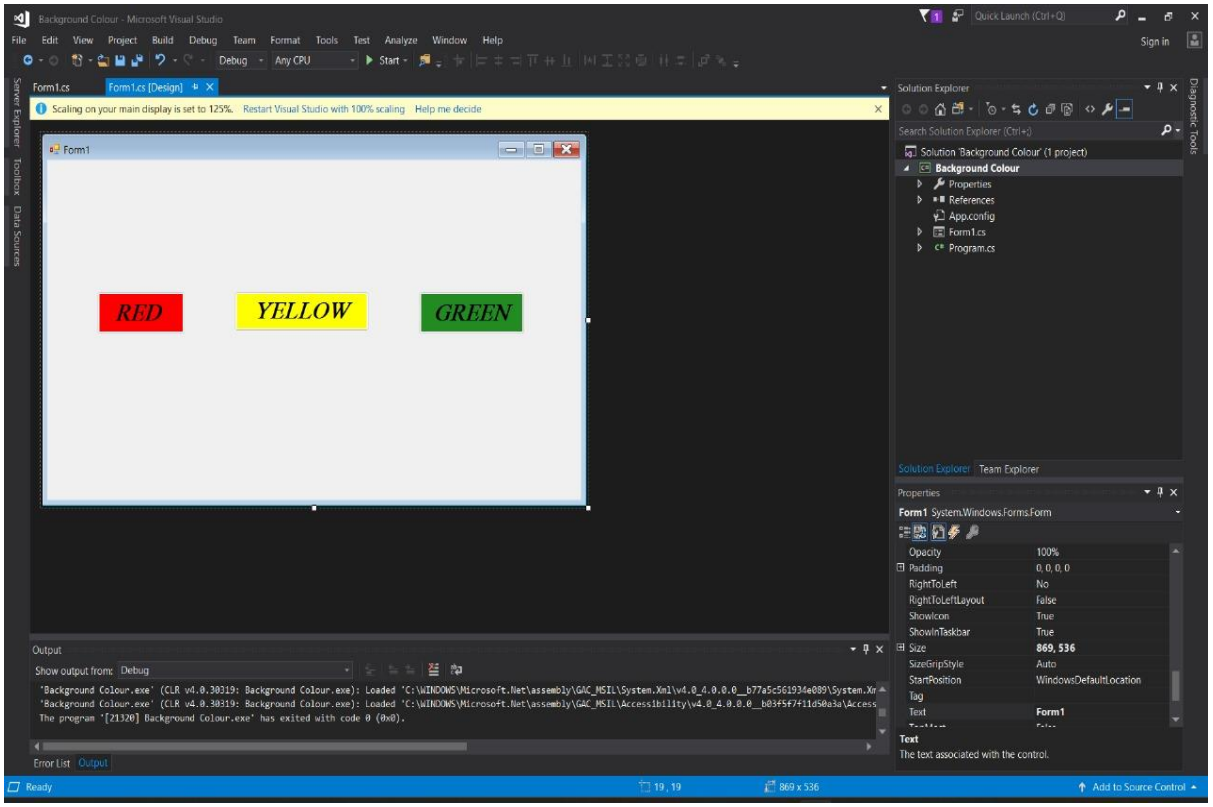


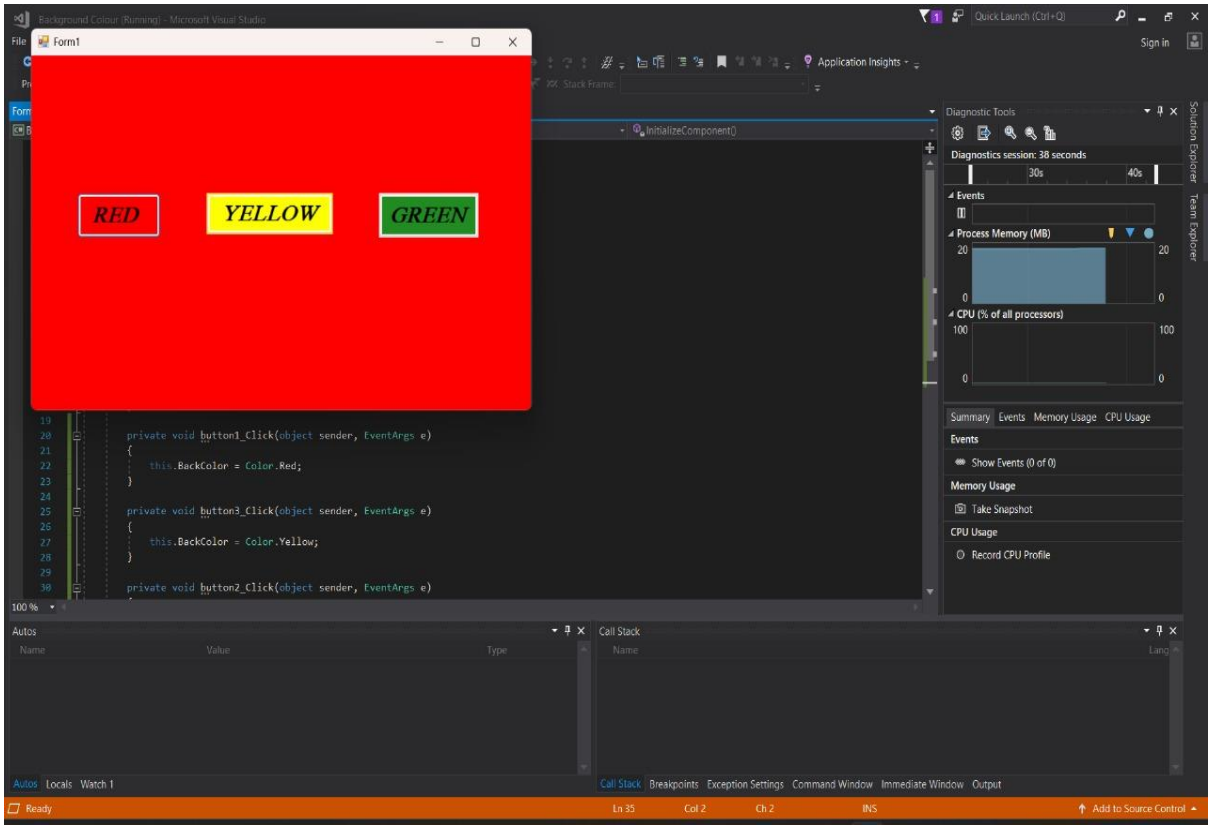

Radio Button - Microsoft Visual Studio
Shipper
USPS
UPS
FedEx
Select Shipper
[lblShipper]
Solution Explorer
Radio Button
Connected Services
Properties
References
packages.config
Web.config
WebForm1.aspx
Ready

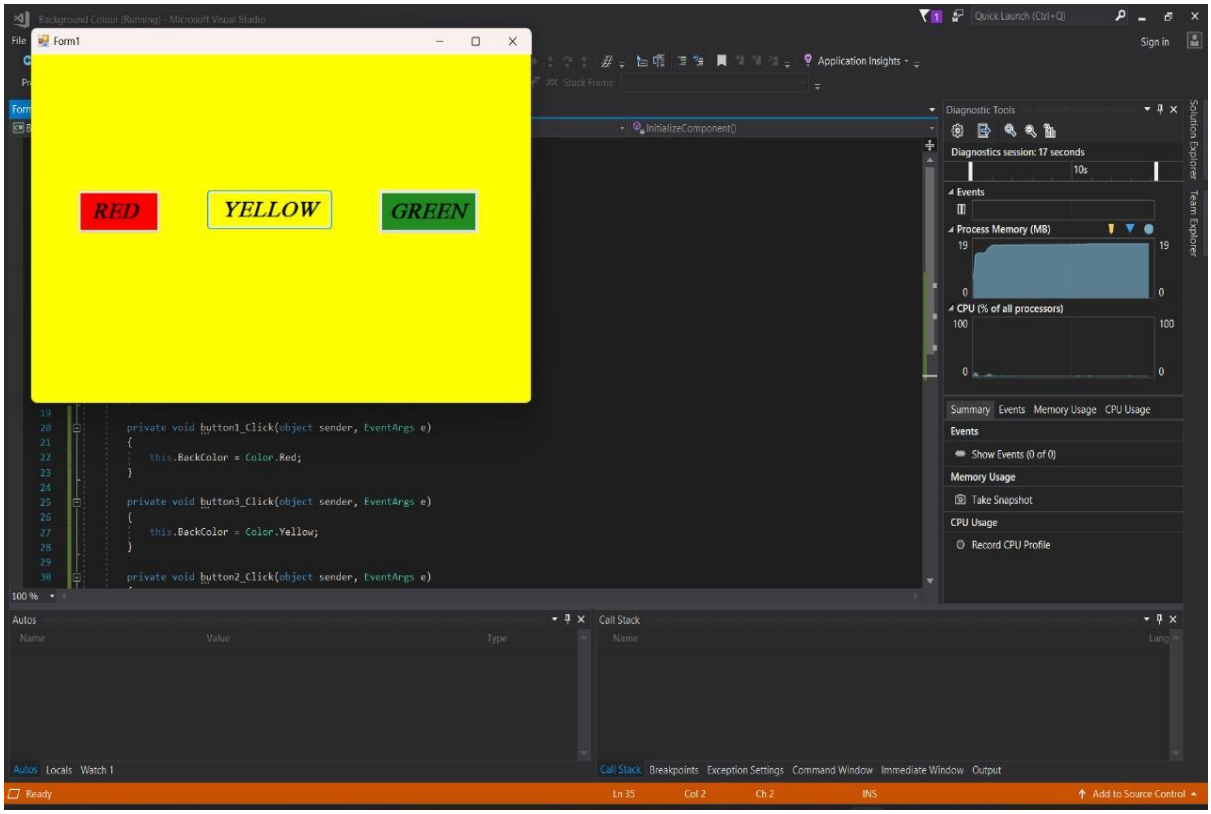

Radio Button - Microsoft Visual Studio
namespace Radio_Button
{
public partial class WebForm1 : System.Web.UI.Page
{
protected void Page_Load(object sender, EventArgs e)
{
}
protected void btnSelectShipper_Click(object sender, EventArgs e)
{
string strShipper = "You have selected: ";
if (radUSPS.Checked)
{
strShipper += "USPS";
}
else if (radUPS.Checked)
{
strShipper += "UPS";
}
else
{
strShipper = "FedEx";
}
strShipper += "as ypur Shipper";
lblShipper.Text = strShipper;
}
}
}
Solution Explorer
Radio Button
Ready

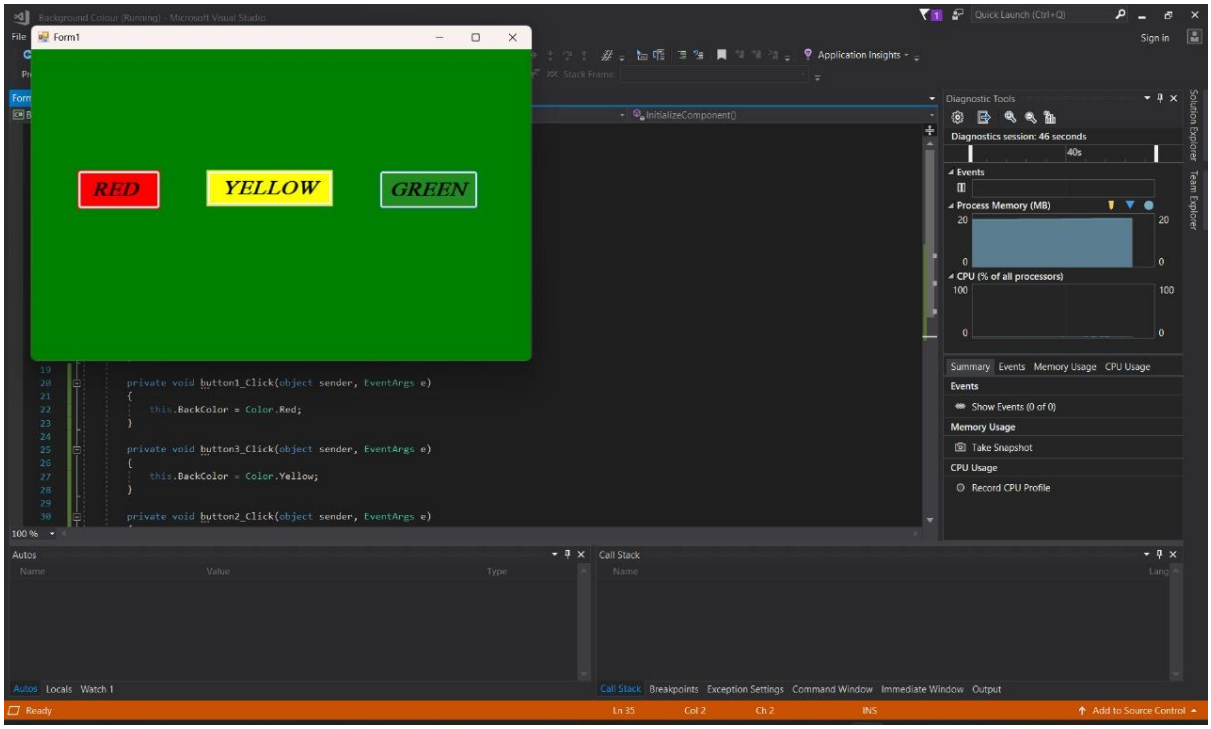
BACKGROUND COLOR CHANGE PROGRAM




Background Colour - Microsoft Visual Studio
Form1
RED
YELLOW
GREEN
Solution Explorer
Background Colour
Properties
References
App.config
Form1.cs
Program.cs
Output
Ready


Form1
RED
YELLOW
GREEN
Diagnostic Tools
Diagnostics session: 38 seconds
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Record CPU Profile
Autos
Call Stack
Ready


Form1
RED
YELLOW
GREEN
private void button1_Click(object sender, EventArgs e)
{
this.BackColor = Color.Red;
}
private void button3_Click(object sender, EventArgs e)
{
this.BackColor = Color.Yellow;
}
private void button2_Click(object sender, EventArgs e)
Diagnostic Tools
Diagnostics session: 17 seconds
Events
Process Memory (MB)
CPU (% of all processors)
Summary Events Memory Usage CPU Usage
Show Events (0 of 0)
Take Snapshot
Record CPU Profile
Autos
Call Stack
Ready


Form1
RED
YELLOW
GREEN
private void button1_Click(object sender, EventArgs e)
{
this.BackColor = Color.Red;
}
private void button3_Click(object sender, EventArgs e)
{
this.BackColor = Color.Yellow;
}
private void button2_Click(object sender, EventArgs e)
Diagnostic Tools
Diagnostics session: 46 seconds
Events
Process Memory (MB)
CPU (% of all processors)
Summary Events Memory Usage CPU Usage
Show Events (0 of 0)
Take Snapshot
Record CPU Profile
Autos
Call Stack
Ready