```
# Name: Alisha Siddiqui
# email: Siddiqas@mail.uc.edu
# Assignment Title: Assignment final
# Due Date: 12/10/2024
# Course: IS 3050 -001
# Semester/Year:Fall 2024
# Brief Description: This project
# Citations: W3Schools
<@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs"
Inherits="WebApplication2._Default" %>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Basic Calculator</title>
  <style>
    body {
       font-family: Arial, sans-serif;
       padding: 20px;
    }
    .container {
       max-width: 600px;
       margin: 0 auto;
       text-align: center;
    input, button {
       margin: 10px;
       padding: 10px;
       font-size: 16px;
    }
    #result {
       font-size: 20px;
       font-weight: bold;
  </style>
</head>
<body>
  <div class="container">
    <h1>Basic Calculator</h1>
    <form id="form1" runat="server">
```

```
<label for="expressionInput">Enter Expression:</label>
       <input type="text" id="expressionInput" runat="server" placeholder="e.g. 3 + (2 - 5)" />
       <br />
       <asp:Button ID="CalculateButton" runat="server" Text="Calculate"
OnClick="CalculateButton_Click" />
     </form>
     <div id="result">
       <asp:Label ID="ResultLabel" runat="server" Text="Result: " />
     </div>
  </div>
</body>
</html>
Class:
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using System;
using System.Collections.Generic;
namespace WebApplication2
  public class Solution
     public int Calculate(string s)
       s = s.Replace(" ", "");
       Stack<int> stack = new Stack<int>();
       int currentNumber = 0;
       int result = 0;
       int sign = 1;
```

```
for (int i = 0; i < s.Length; i++)
          char ch = s[i];
          if (char.lsDigit(ch))
             currentNumber = currentNumber * 10 + (ch - '0');
          else if (ch == '+')
             result += sign * currentNumber;
             currentNumber = 0;
             sign = 1;
          }
          else if (ch == '-')
             result += sign * currentNumber;
             currentNumber = 0;
             sign = -1;
          else if (ch == '(')
             stack.Push(result);
             stack.Push(sign);
             result = 0;
             sign = 1;
          else if (ch == ')')
             result += sign * currentNumber;
             currentNumber = 0;
             result *= stack.Pop();
             result += stack.Pop();
          }
       result += sign * currentNumber;
       return result;
     }
}
```

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using System;
namespace WebApplication2
  public partial class _Default : System.Web.UI.Page
     protected void Page_Load(object sender, EventArgs e)
     }
     protected void CalculateButton_Click(object sender, EventArgs e)
     {
       string expression = expressionInput.Value.Trim();
       var solution = new Solution();
       int result = solution.Calculate(expression);
       ResultLabel.Text = "Result: " + result.ToString();
 }
}
```