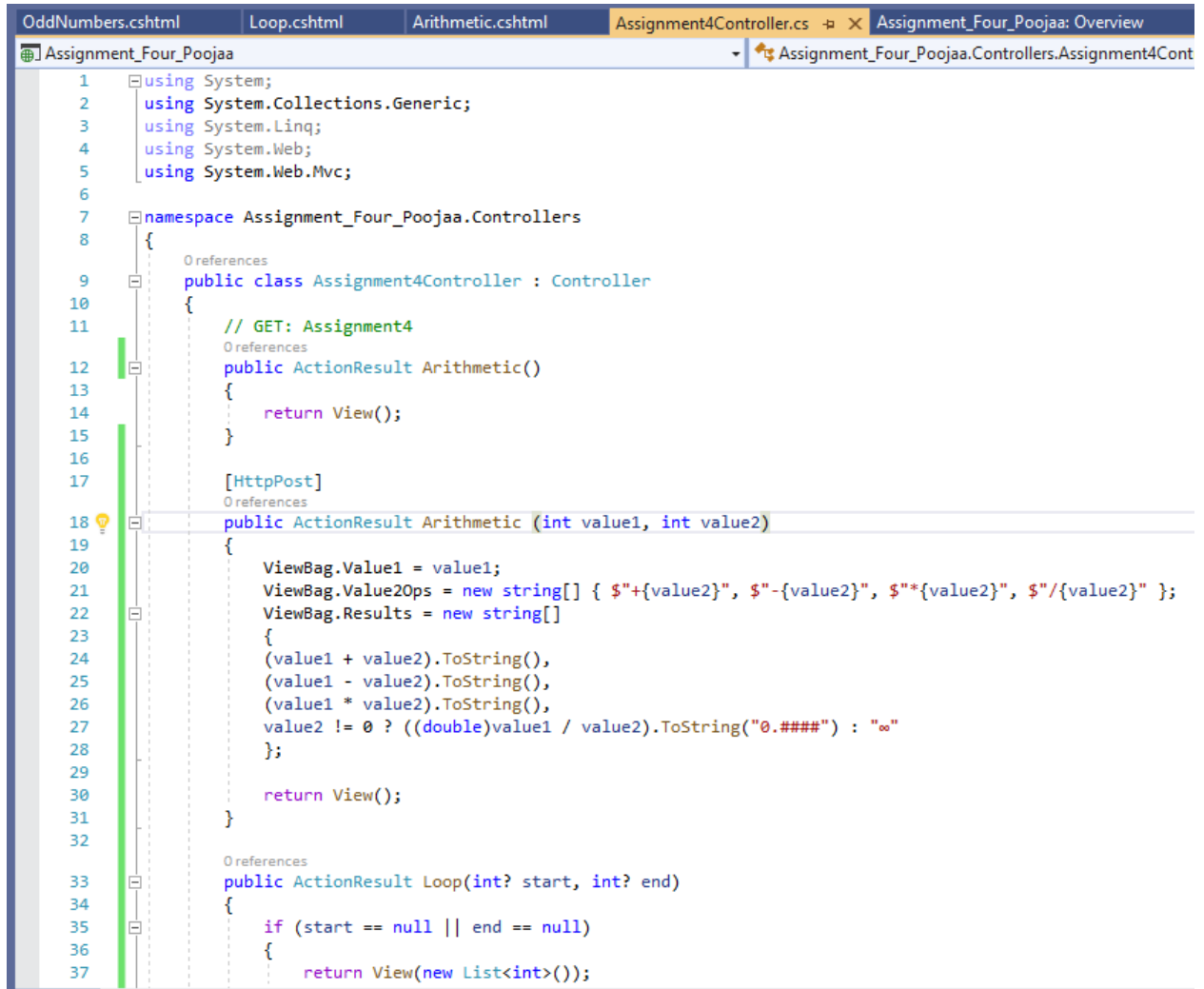


Name: Solanki Pooja P.

Enrollment no: 240823101

Assignment-4

Controller:



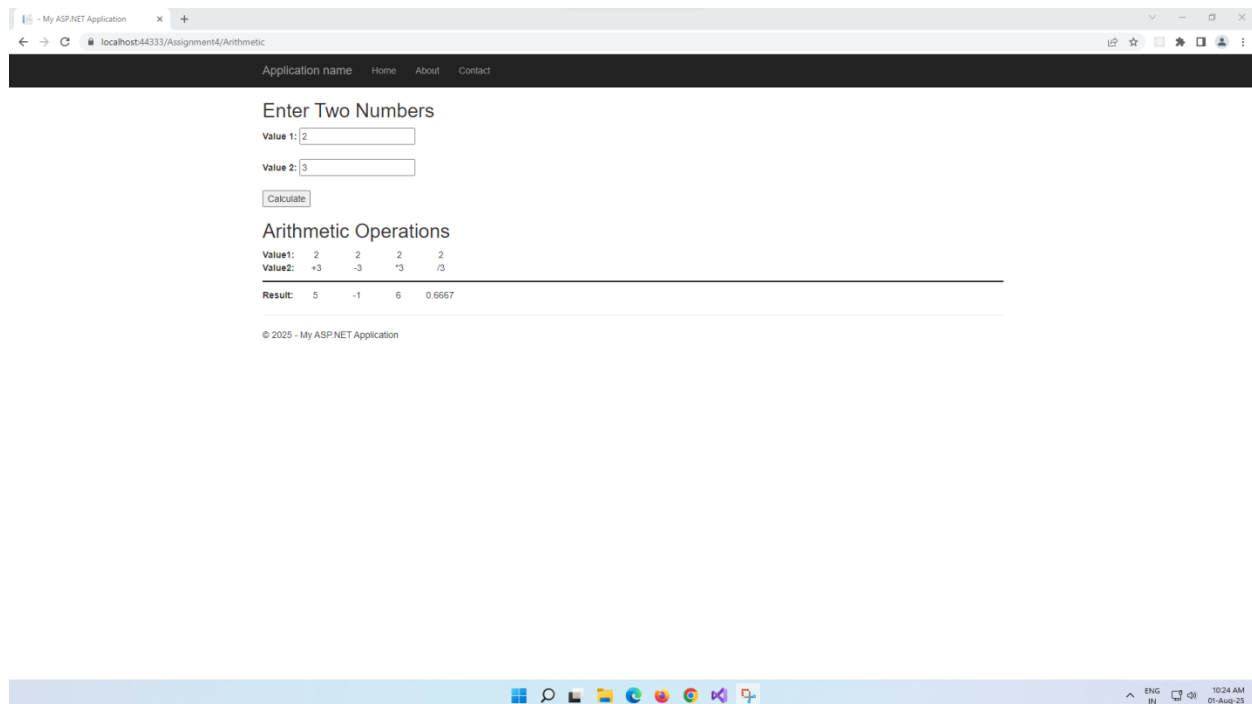
```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Web;
5  using System.Web.Mvc;
6
7  namespace Assignment_Four_Poojaa.Controllers
8  {
9      // GET: Assignment4
10     public class Assignment4Controller : Controller
11     {
12         // GET: Assignment4
13         public ActionResult Arithmetic()
14         {
15             return View();
16         }
17
18         [HttpPost]
19         public ActionResult Arithmetic (int value1, int value2)
20         {
21             ViewBag.Value1 = value1;
22             ViewBag.Value2Ops = new string[] { $"{value1}+{value2}", $"{value1}-{value2}", $"{value1}*{value2}", $"{value1}/{value2}" };
23             ViewBag.Results = new string[]
24             {
25                 (value1 + value2).ToString(),
26                 (value1 - value2).ToString(),
27                 (value1 * value2).ToString(),
28                 value2 != 0 ? ((double)value1 / value2).ToString("0.####") : "∞"
29             };
30             return View();
31         }
32
33         public ActionResult Loop(int? start, int? end)
34         {
35             if (start == null || end == null)
36             {
37                 return View(new List<int>());
38             }
39         }
40     }
41 }
```

```
37         return View(new List<int>());
38     }
39     int startNum = start.Value;
40     int endNum = end.Value;
41     if (startNum > endNum)
42     {
43         int temp = startNum;
44         startNum = endNum;
45         endNum = temp;
46     }
47     var numbers = new List<int>();
48     for (int i = startNum; i <= endNum; i++)
49     {
50         numbers.Add(i);
51     }
52     return View(numbers);
53 }
54 0 references
55 public ActionResult OddNumbers(int? start, int? count)
56 {
57     List<int> oddNumbers = new List<int>();
58     if (start.HasValue && count.HasValue && start > 0 && count > 0)
59     {
60         int number = start.Value;
61         while (oddNumbers.Count < count.Value)
62         {
63             if (number % 2 != 0)
64                 oddNumbers.Add(number);
65             number++;
66         }
67         ViewBag.OddNumbers = oddNumbers;
68         ViewBag.Start = start;
69         ViewBag.Count = count;
70     }
71     return View();
72 }
73 }
74 }
75 }
```

Arithmetic:

```
OddNumbers.cshtml | Loop.cshtml | Arithmetic.cshtml | Assignment4Controller.cs | Assignment_Four_Pooja: Overview
1  @{ int val1 = ViewBag.Value1 ?? 0;
2    string[] val2Ops = ViewBag.Value2Ops as string[];
3    string[] results = ViewBag.Results as string[];
4    string val2Input = "";
5    if (val2Ops != null && val2Ops.Length > 0)
6    {
7        val2Input = val2Ops[0].TrimStart('+', '-', '*', '/');
8    }
9    <h2>Enter Two Numbers</h2>
10   <form method="post" action="">
11       <label>Value 1:</label>
12       <input type="number" name="value1" value="@val1" required />
13       <br />
14       <label>Value 2:</label>
15       <input type="number" name="value2" value="@val2Input" required />
16       <br />
17       <button type="submit">Calculate</button>
18   </form>
19   @if (val2Ops != null && results != null){
20       <h2>Arithmetic Operations</h2>
21       <div>
22           <strong>Value1:</strong>
23           @foreach (var _ in val2Ops)
24           {
25               <span style="display:inline-block; width: 60px; text-align:center;">@val1</span>
26           }
27       </div>
28       <div>
29           <strong>Value2:</strong>
30           @foreach (var op in val2Ops)
31           {
32               <span style="display:inline-block; width: 60px; text-align:center;">@op</span>
33           }
34       </div>
35       <hr style="margin: 10px 0; border: 1px solid black;" />
36       <div>
37           <strong>Result:</strong>
38           @foreach (var res in results)
39           {
40               <span style="display:inline-block; width: 60px; text-align:center;">@res</span>
41           }
42       </div>
43   }
```

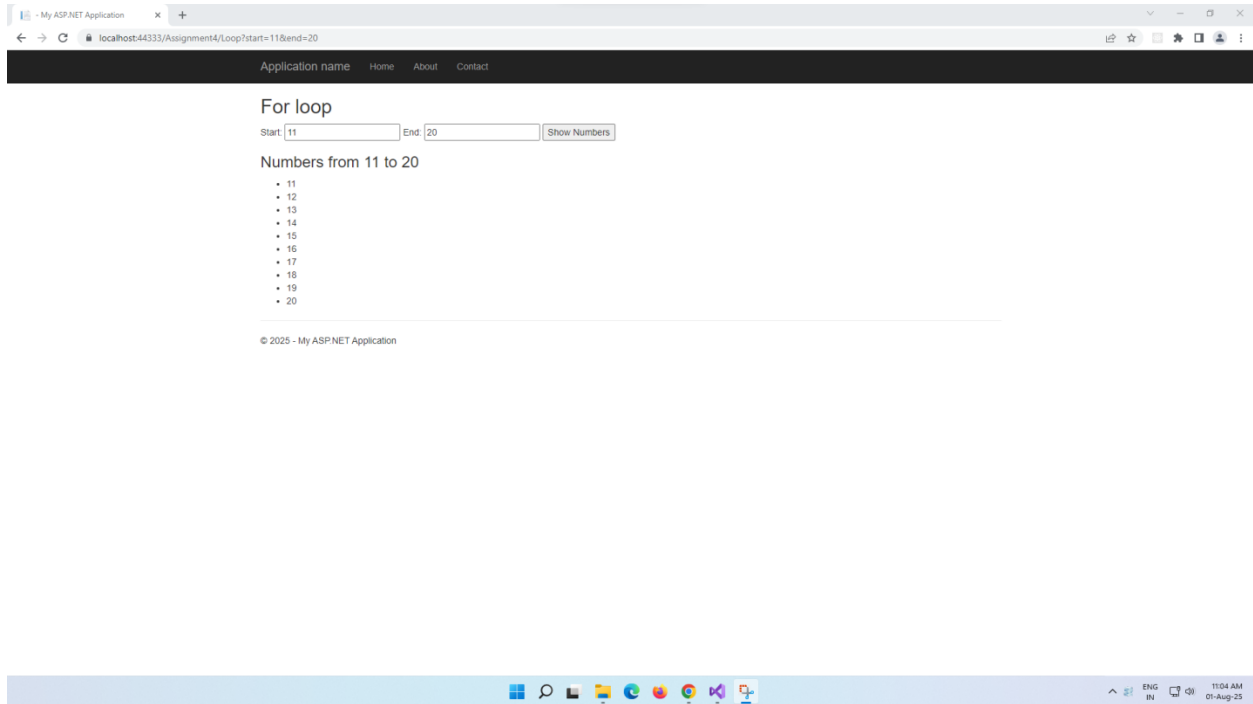
Output:



Loop:

```
OddNumbers.cshtml  Loop.cshtml  ShowOddNumbers.cshtml  Arithmetic.cshtml  Assignment4Controller.cs  Assi
1
2  @model List<int>
3
4  <h2>For loop</h2>
5
6  <form method="get" action="">
7
8      Start: <input type="number" name="start" value="@((Model.Any() ? Model.First().ToString() : ""))" />
9
10     End: <input type="number" name="end" value="@((Model.Any() ? Model.Last().ToString() : ""))" />
11
12     <button type="submit">Show Numbers</button>
13
14 </form>
15
16 @if (Model.Any())
17 {
18
19
20     <h3>Numbers from @Model.First() to @Model.Last()</h3>
21     <ul>
22         @foreach (var number in Model)
23         {
24             <li>@number</li>
25         }
26     </ul>
27 }
28
29 else
30 {
31     <p>Please enter start and end numbers to display the list.</p>
32 }
33
34
```

Output:



OddNumbers:

```
OddNumbers.cshtml | Loop.cshtml | ShowOddNumbers.cshtml | Arithmetic.cshtml | Assignment4Controller.cs | Assign
1  @{ ViewBag.Title = "Odd Numbers";
2
3      List<int> oddNumbers = ViewBag.OddNumbers as List<int>;
4      string[] colors = { "skyblue", "pink" };
5      int? start = ViewBag.Start as int?;
6      int? count = ViewBag.Count as int?; }
7
8  <h2>Odd Numbers</h2>
9
10 <form method="get" action="@Url.Action("OddNumbers")">
11
12     <label for="start">Start Number:</label>
13     <input type="number" name="start" value="@start ?? 1" placeholder="Enter start number" min="1" />
14     <br />
15     <label for="count">Number of Odd Numbers:</label>
16     <input type="number" name="count" value="@count ?? 1" placeholder="Enter count" min="1" />
17     <button type="submit">Submit</button>
18
19 </form>
20
21 @if (oddNumbers != null && oddNumbers.Count > 0)
22 {
23     <h3>Odd Numbers starting from @start</h3>
24
25     <table border="2" cellpadding="5" cellspacing="0">
26
27         <tr>
28             <th>Sr</th>
29             <th>Odd Number</th>
30         </tr>
31         @for (int i = 0; i < oddNumbers.Count; i++)
32         {
33             var color = colors[i % colors.Length];
34             <tr style="background-color:@color;">
35                 <td>@(i + 1)</td>
36                 <td>@oddNumbers[i]</td>
37             </tr>
38         }
39     </table>
40
41 }
```

Output:

Odd Numbers - My ASP.NET App

localhost:44333/Assignment4/OddNumbers?start=35&count=20

Application name Home About Contact

Odd Numbers

Start Number:

Number of Odd Numbers:

Odd Numbers starting from 35

Sr	Odd Number
1	35
2	37
3	39
4	41
5	43
6	45
7	47
8	49
9	51
10	53
11	55
12	57
13	59
14	61
15	63
16	65
17	67
18	69
19	71
20	73

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