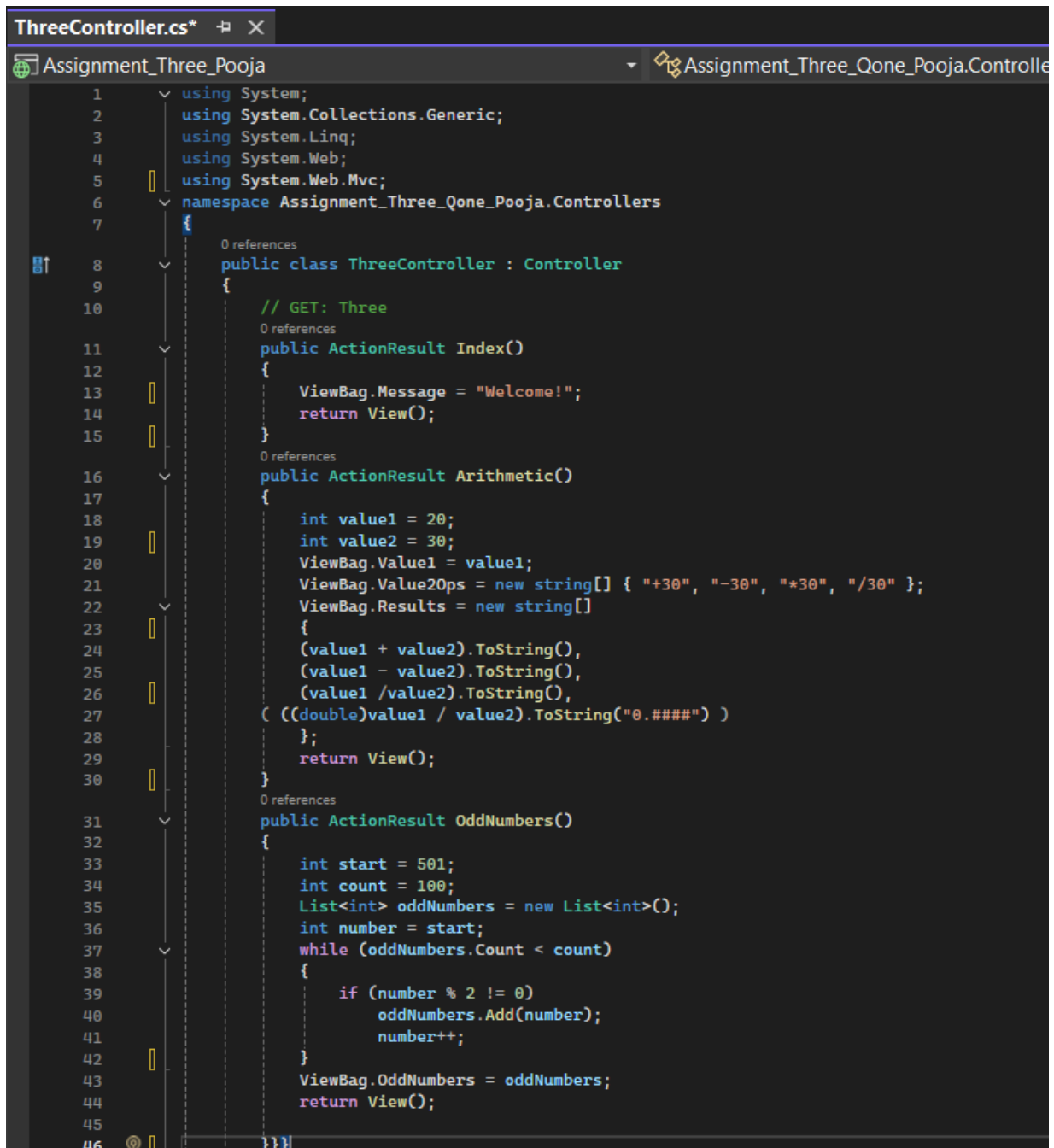


Name: Solanki Pooja P.

Enrollment no: 240823101

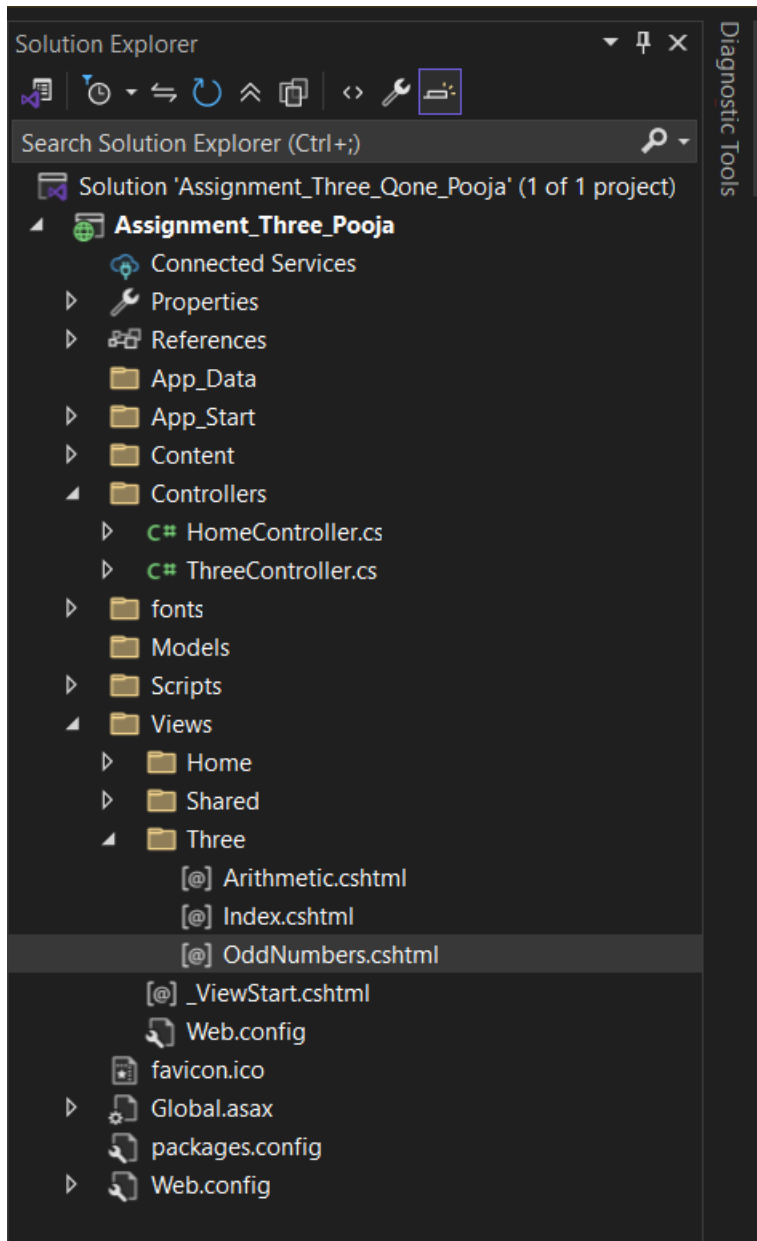
Assignment-3

Controller:



```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Web.Mvc;
6 namespace Assignment_Three_Qone_Pooja.Controllers
7 {
8     public class ThreeController : Controller
9     {
10         // GET: Three
11         public ActionResult Index()
12         {
13             ViewBag.Message = "Welcome!";
14             return View();
15         }
16         public ActionResult Arithmetic()
17         {
18             int value1 = 20;
19             int value2 = 30;
20             ViewBag.Value1 = value1;
21             ViewBag.Value2Ops = new string[] { "+30", "-30", "*30", "/30" };
22             ViewBag.Results = new string[]
23             {
24                 (value1 + value2).ToString(),
25                 (value1 - value2).ToString(),
26                 (value1 / value2).ToString(),
27                 ((double)value1 / value2).ToString("0.####")
28             };
29             return View();
30         }
31         public ActionResult OddNumbers()
32         {
33             int start = 501;
34             int count = 100;
35             List<int> oddNumbers = new List<int>();
36             int number = start;
37             while (oddNumbers.Count < count)
38             {
39                 if (number % 2 != 0)
40                     oddNumbers.Add(number);
41                 number++;
42             }
43             ViewBag.OddNumbers = oddNumbers;
44             return View();
45         }
46     }
47 }
```

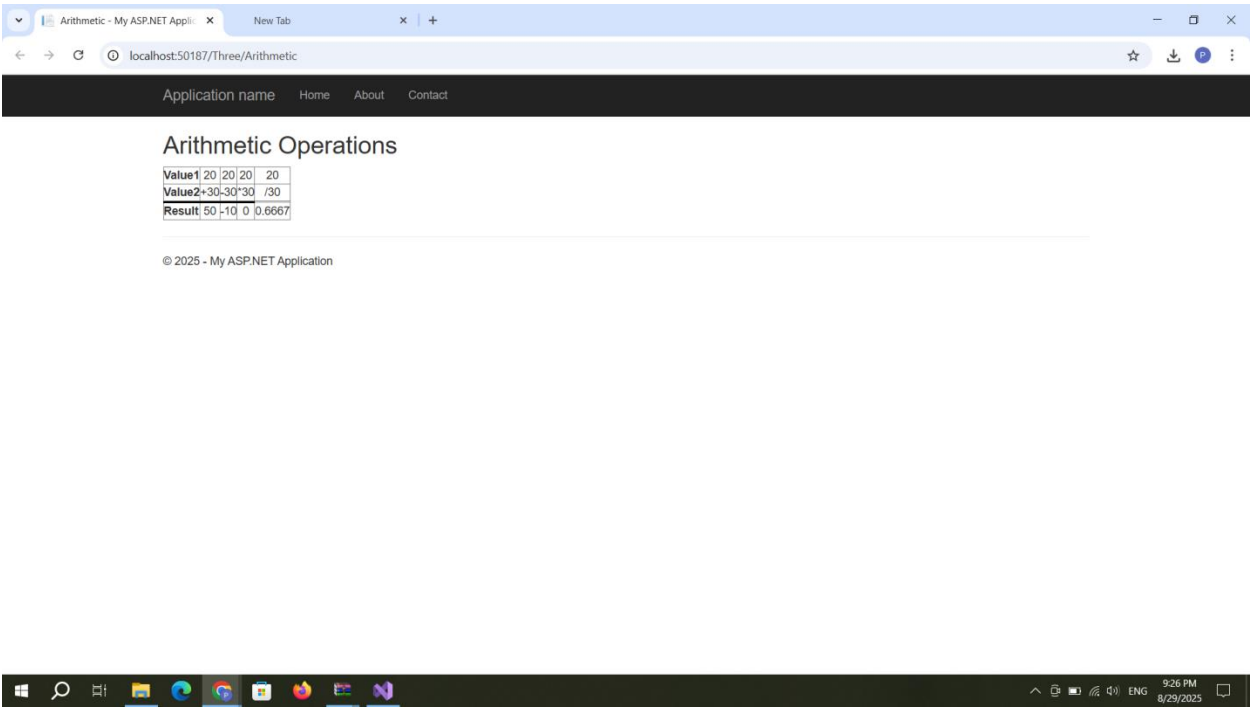
Solution Explorer:



Arithmetic.cshtml

```
Arithmetic.cshtml  Index.cshtml  OddNumbers.cshtml  ThreeController.cs
1      @{
2          ViewBag.Title = "Arithmetic";
3      }
4
5      @{ int val1 = ViewBag.Value1;
6          string[] val20ps = ViewBag.Value20ps as string[];
7          string[] results = ViewBag.Results as string[]; }
8      <h2>Arithmetic Operations </h2>
9
10     <table border="1" cellpadding="8" style="text-align:center; border-collapse: collapse;">
11     <tr>
12         <th>Value1</th>
13         @for (int i = 0; i < val20ps.Length; i++)
14         {
15             <td>@val1</td>
16         }
17     </tr>
18     <tr>
19         <th>Value2</th>
20         @for (int i = 0; i < val20ps.Length; i++)
21         {
22             <td>@val20ps[i]</td>
23         }
24     </tr>
25     <tr>
26         <td colspan="@val20ps.Length + 1" style="border-bottom: 3px solid black;"></td>
27     </tr>
28     <tr>
29         <th>Result</th>
30         @for (int i = 0; i < results.Length; i++)
31         {
32             <td>@results[i]</td>
33         }
34     </tr>
35 </table>
36
```

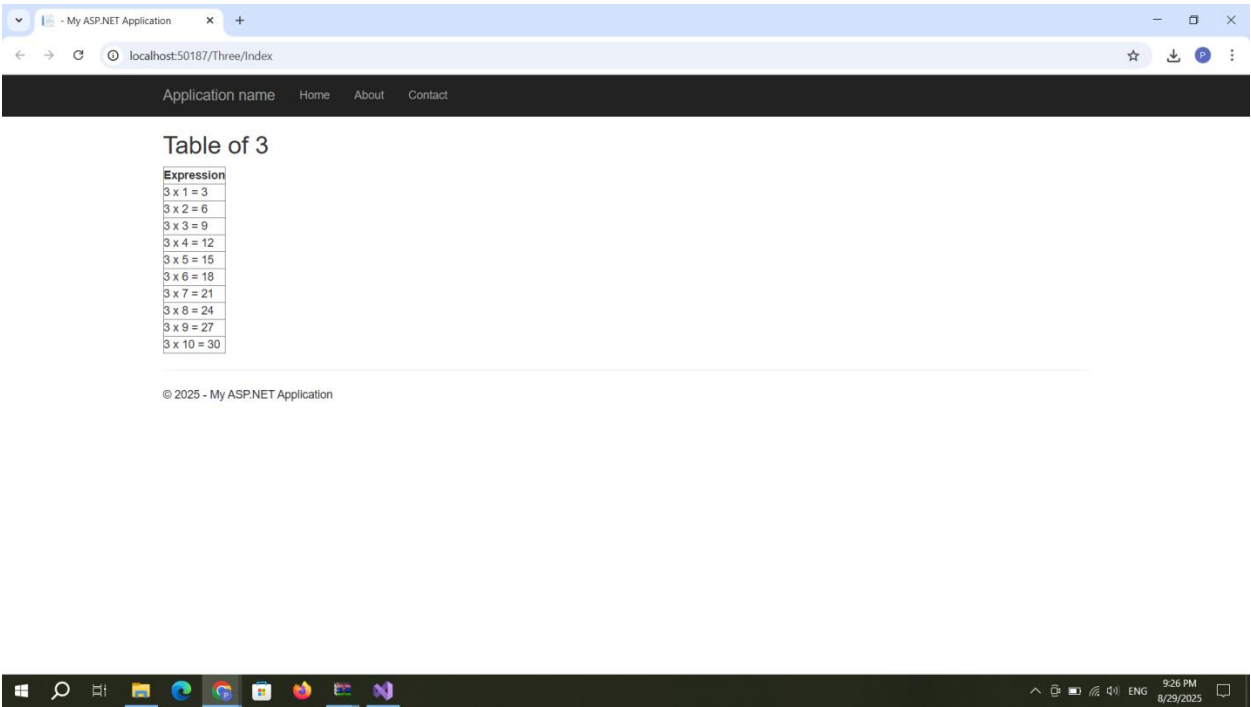
Output:



Index.cshtml:

```
Index.cshtml  OddNumbers.cshtml  Arithmetic.cshtml  ThreeController.cs
1  @{ int number = 3; }
2
3  <h2>Table of @number </h2>
4
5  <table border="1" cellpadding="5">
6
7      <tr>
8
9          <th>Expression</th>
10
11      </tr>
12
13      @for (int i = 1; i <= 10; i++)
14      {
15
16
17          <tr>
18
19              <td>@number x @i = @(number * i)</td>
20
21          </tr>
22      }
23  </table>
24
```

Output:



OddNumbers.cshtml:

```
OddNumbers.cshtml  Index.cshtml  Arithmetic.cshtml  ThreeController.cs
1  @{ ViewBag.Title = "Odd Numbers";
2
3      List<int> oddNumbers = ViewBag.OddNumbers as List<int>;
4
5      string[] colors = { "green", "red" }; }
6
7      <h2>First 100 Odd Numbers starting from 501</h2>
8
9      <table border="1" cellpadding="5" cellspacing="0">
10
11          <tr>
12              <th>Sr</th>
13              <th>Odd Number</th>
14          </tr>
15
16          @for (int i = 0; i < oddNumbers.Count; i++)
17          {
18              var color = colors[i % colors.Length];
19
20              <tr style="background-color:@color;">
21                  <td>@(i + 1)</td>
22                  <td>@oddNumbers[i]</td>
23              </tr>
24          }
25      </table>
26
27
28
29
30
31
32
33
34
35
```

Output:

