```
1 using Microsoft.AspNetCore.Mvc.Rendering;
2 using System.ComponentModel.DataAnnotations;
 4 //created by Dr. Paravastu
 5 //11111111111111111111111111
 7 namespace SoftwareProviderApp.Models
 9
       public class BillModel
10
11
            [Required] // name string is required which will force the user >
             to enter name.
12
           public string? CustomerName { get; set; }
13
           public string? SoftwareCode { get; set; }
14
15
            [Range(1, 100)] //number of users in the range of 1 and 100).
16
           public int Users { get; set; }
17
18
           //creating a property of type list to store software list.
19
           public List<SelectListItem> SoftwareList { get; set; } = new
             List<SelectListItem>
20
            {
21
               //Represents an item in a SelectList or MultiSelectList.
22
               //This class is typically rendered as an HTML <option>
                 element with the specified attribute values.
23
               new SelectListItem{ Value = "PM", Text = "Payroll
                 Management"},
24
               new SelectListItem{ Value = "CM", Text = "Customer"
                 Management" },
25
               new SelectListItem{ Value = "TM", Text = "Training"
                 Management"}
26
               // new SelectListItem{Text = "Something", Value =
                  "SomethingElse", Selected = true}
27
28
           };
29
30
           public string GetSelectedSoftware()
31
32
               string softwareName = "";
33
               if (SoftwareCode == "PM")
34
35
                    softwareName = "Payroll Management";
36
37
               else if (SoftwareCode == "CM")
38
39
                    softwareName = "Customer Magement";
40
41
               else if (SoftwareCode == "TM")
42
```

```
43
                    softwareName = "Training Management";
44
45
                return softwareName;
46
47
           }//GetSelectedSoftware()
48
49
           private double GetSoftwareRate()
50
51
                double rate = 100;
52
                if (SoftwareCode == "PM")
53
54
                    rate = 100;
55
56
                else if (SoftwareCode == "CM")
57
58
                    rate = 75;
59
60
                else if (SoftwareCode == "TM")
61
62
                   rate = 80;
63
                }//if
64
65
                return rate;
66
            }//getSoftwareRate
67
68
           public double GetMonthlyCharge()
69
            {
70
                double rate = GetSoftwareRate();
71
               return this.Users * rate;
72
73
74
       }//end BillModel
75 }//namespace
76
```

```
1 a*
 2
       This is the comment section.
 3
       Created by Dr. Paravastu
       The @model statement at the top of the view file specifies the type >
         of object that the view expects. This @model directive allows
         access to the BillModel that the controller passed to the view.
         The Model object is strongly typed.
 5 *a
 6 @model BillModel
 7 @{
 8
       Layout = null;
 9 }
10 <!DOCTYPE html>
11 <html>
12
       <head>
13
           <meta charset="utf-8" />
14
           <meta name = "viewport" content = "width=device-width" />
15
           <title>Index</title>
           <link rel="stylesheet" href= "~/css~/css/site.css" />
16
17
           @*
18
               created by Dr. Paravastu
19
               333333333333333333333333
20
               The index page loads first. it has a select with several
                 options. when the user enters name and
21
               selects software from list and enters number of users, the >
                 page posts to confirmation page and displays
22
               result as a table.
23
               If form has errors, it will not post.
24
            * a
2.5
2.6
       </head>
27
       <body>
28
           <h1>Software Billing Form</h1>
29
           <form asp-controller="Home" asp-action="Index" method="post">
30
                <div>
31
                   <label asp-for="CustomerName">Customer Name: </label>>>
                      <input asp-for = "CustomerName" />
32
                   <q>
33
                       <label>Select Software Package: </label>
34
                        <select asp-for = "SoftwareCode" asp-items =</pre>
                     "Model.SoftwareList"></select>
35
                   36
                   >
37
                       <label asp-for="Users">Number of Users: </label>
                     <input asp-for = "Users" />
38
39
                   40
                   >
41
                        <button type="submit">Submit
```

```
...viderApp\SoftwareProviderApp\Views\Home\Index.cshtml
42
```

```
2
```

```
1 using Microsoft.AspNetCore.Mvc;
2 using SoftwareProviderApp.Models;
 4 //created by Dr. Paravastu
 5 //2222222222222222222222
 6 namespace SoftwareProviderApp.Controllers
 7 {
 8
       public class HomeController : Controller
 9
       {
10
           [HttpGet]
11
           public ViewResult Index()
12
13
               return View(new BillModel()); //using statement shoudl be
                 included.
14
15
16
           [HttpPost]
17
           public IActionResult Index(BillModel billModel)
18
19
               if (ModelState.IsValid)
20
21
                   return View("Confirmation", billModel);
22
23
               return Redirect("/");
24
25
26
       }
27 }
28
```

```
1 a*
2
      Created by Dr. Paravastu
      4444444444444444444444444
 4 *@
 5 @model BillModel
 6 @ {
 7
      Layout = null;
8 }
 9 <!DOCTYPE html>
10 <html>
11
      <head>
12
          <meta charset="utf-8" />
13
          <meta name="viewport" content="width=device-width" />
14
          <title>Index</title>
15
          <link rel="stylesheet" href="~/css~/css/site.css" />
16
17
18
      </head>
19
      <body>
20
          <h1>Billing Confirmation</h1>
21
          22
              23
                  Customer name: 
24
                 @*call and display the propety here from the billmodel >>
                   class to display customer name.*@
25
                  @Model.CustomerName
26
              27
              28
                  Software: 
29
                  @*Call the method here to display selected software.*@
30
                  @Model.GetSelectedSoftware()
31
              32
              33
                 @*Call GetMonthlyCharge() method to display monthly
                   charge.*@
34
                 Monthly Charge: 
35
                  @Model.GetMonthlyCharge()
36
              37
38
          39
      </body>
40 </html>
41
```