```
 1  using Microsoft.AspNetCore.Mvc;
 2  using SoftwareBilling.Models;
 3  using System.Diagnostics;
 4  //created by Dr. Paravastu
 5  //2222222222222222222222222
 6  namespace SoftwareBilling.Controllers
 7  {
 8      public class HomeController : Controller
 9      {
10
11
12          public IActionResult Index()
13          {
14              return View(new BillingModel());
15          }
16          [HttpPost]
17          public IActionResult Index (BillingModel billingModel)
18          {
19              //validate model:
20              if(ModelState.IsValid)
21              {
22                  return View("Confirmation", billingModel);
23              }//if
24              return View(billingModel);
25
26          }//BillingModel
27
28      }
29  }
```

```csharp
1  using Microsoft.AspNetCore.Mvc.Rendering;
2  using System.ComponentModel.DataAnnotations;
3
4  namespace SoftwareBilling.Models
5  {
6      //created by Dr. Paravastu
7      //1111111111111111111111111
8      public class BillingModel
9      {
10         [Required(ErrorMessage = "This is a required field.")]
11         public string? CustomerName { get; set; }
12         public string? SoftwareCode { get; set; }
13         [Range(1, 100, ErrorMessage ="Enter an Integer Between 1 and 100")]
14         public int Users { get; set;}
15         public List<SelectListItem>? SoftwareList { get; set; } = new ⇁
              List<SelectListItem>{
16             new SelectListItem{Value="PM", Text ="Payroll Management", Selected ⇁
                 = true},
17             new SelectListItem{Value = "CM", Text="Customer Management"},
18             new SelectListItem{Value = "TM", Text="Training Management"},
19             new SelectListItem{Value = "Other", Text="Something Else"}
20
21         };
22
23
24         //method to determine what software was selected:
25         public string GetSelectedSoftware()
26         {
27             string softwareName = "";
28             switch (SoftwareCode)
29             {
30                 case "PM":
31
32                     softwareName = "Payroll Management";
33                     break;
34                 case "CM":
35                     softwareName = "Customer Management";
36                     break;
37                 case "TM":
38                     softwareName = "Training Management";
39                     break;
40                 case "Other":
41                     softwareName = "Something Else";
42                     break;
43             }//switch
44
45             return softwareName;
46
47         }//GetSelectedSoftware()
```

```
48
49          private double GetSoftwareRate()
50          {
51              double rate = 100;
52
53              switch (SoftwareCode)
54              {
55                  case "PM":
56                      rate = 100;
57                      break;
58                  case "CM":
59                      rate = 75;
60                      break;
61                  case "TM":
62                      rate = 80;
63                      break;
64                  case "Other":
65                      rate = 90;
66                      break;
67
68              }
69              return rate;
70          }// GetSoftwareRate()
71
72          public double GetMonthlyCharge()
73          {
74              double rate = GetSoftwareRate();
75              return Users * rate;
76          }//GetMonthlycharge)
77
78      }//Billing Model
79 }
80
```

```
 1  @model BillingModel
 2  @{
 3      ViewData["Title"] = "Paravastu Week3";
 4  }
 5  @*
 6      created by Dr. Paravastu
 7      333333333333333333333333*@
 8  <!DOCTYPE html>
 9  <html>
10      <head>
11      <!-- Created by Dr. Paravastu -->
12          <title>@ViewData["Title"]</title>
13          <meta name="viewport" content="width=device-width" />
14          <meta charset = "UTF-8">
15          <link href=" ~ /css/site.css" rel="stylesheet" />
16      </head>
17      <body>
18          <h1>Software Billing Form</h1>
19          <p>Paragraph</p>
20          <form asp-action = "Index" asp-controller="Home" method= 'POST' >
21              <p>
22                  <label asp-for="CustomerName">Customer Name: </label>
23                  <input asp-for="CustomerName" />
24                  <span asp-validation-for="CustomerName"></span>
25              </p>
26              <p>
27                  <label asp-for="SoftwareCode">Software Package: </label>
28                  <select asp-for="SoftwareCode" asp-items="Model.SoftwareList"></
                      select>
29              </p>
30              <p>
31                  <label asp-for="Users">Number of Users: </label>
32                  <input asp-for="Users" />
33                  <span asp-validation-for="Users"></span>
34              </p>
35              <p>
36                  <button type="submit">Submit</button>
37              </p>
38          </form>
39      </body>
40  </html>
```

```
1  @*
2      Created by Dr. Paravastu
3      444444444444444444444444
4  *@
5  @model BillingModel
6
7  <!DOCTYPE html>
8  <html>
9      <head>
10         <!-- Created by Dr. Paravastu -->
11         <title>@ViewData["Title"]</title>
12         <meta name="viewport" content="width=device-width" />
13         <meta charset="UTF-8">
14         <link href=" ~ /css/site.css" rel="stylesheet" />
15     </head>
16     <body>
17         <h1>Billing Confirmation</h1>
18         <table>
19             <tr>
20                 <td>Customer Name: </td>
21                 <td>@Model.CustomerName</td>
22             </tr>
23             <tr>
24                 <td>Software: </td>
25                 <td>@Model.GetSelectedSoftware()</td>
26             </tr>
27             <tr>
28                 <td>Monthly Charge: </td>
29                 <td>@Model.GetMonthlyCharge().ToString("C")</td>
30             </tr>
31         </table>
32     </body>
33 </html>
```