```
BMI:
using System;
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;
using System.Ling;
using System.Web;
//Do not change the namespace name
namespace BMITrackerApp.Models
{
    public enum Gender { Select, Male, Female, Others }
    //Do not change the class name
    public class BMI
        [MaxLength(20)]
        [Required(ErrorMessage = "Please Provide Person Name")]
        [Display(Name = "Person Name")]
        public string PersonName { get; set; }
        [Required, Range(1, 3, ErrorMessage = "Please Select Gender")]
        public Gender Gender { get; set; }
        [Required, Range(18, 60, ErrorMessage = "Please Enter Age")]
        public int Age { get; set; }
        [Required(ErrorMessage = "Please Provide Date of Record")]
        [DataType(DataType.Date)]
        [Display(Name = "Date of Record")]
        [DisplayFormat(DataFormatString = "{0:yyyy-MM-dd}", ApplyFormatInEditMode =
true)]
        public DateTime? DateOfRecord { get; set; }
        [Required, Range(30.0, 100.0, ErrorMessage = "Please Enter Weight in KG")]
        [Display(Name = "Weight In Kg")]
        public double WeightInKg { get; set; }
        [Required, Range(100, 300, ErrorMessage = "Please Enter Height in CM")]
        [Display(Name = "Height In CM")]
        public double HeightInCm { get; set; }
        [Display(Name = "Calculated BMI")]
        [DisplayFormat(DataFormatString = "{0:0.0}", ApplyFormatInEditMode = true)]
        public double CalculatedBMI { get; set; }
        //Write your code here
        public double GetBMI()
            this.CalculatedBMI=WeightInKg/Math.Pow((HeightInCm/100),2);
            return this.CalculatedBMI;
        }
    }
}
BMICONTROLLER:
using BMITrackerApp.Data;
```

```
using BMITrackerApp.Models;
using System;
using System.Collections.Generic;
using System.Dynamic;
using System.Ling;
using System.Web;
using System.Web.Mvc;
//Do not change the namespace name
namespace BMITrackerApp.Controllers
{
    //Do not change the class name
    public class BMIController : Controller
    BMIDAO bmidao = new BMIDAO();
        //Implement your code
        public ActionResult Index()
        {
            return View(bmidao.GetBMIData());
        [HttpGet]
        public ActionResult Create()
        {
            return View();
        [HttpPost]
        public ActionResult Create(BMI bmi)
            bmi.CalculatedBMI= bmi.GetBMI();
            bmidao.AddBMIData(bmi);
            return View();
        }
        [HttpPost]
        public ActionResult CheckExisting(string personName)
            foreach(BMI bmi in bmidao.GetBMIData())
            {
                if(bmi.PersonName==personName) return View(bmi);
            return View();
        }
    }
}
BMIDA0:
using BMITrackerApp.Models;
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
//Do not change the namespace name
namespace BMITrackerApp.Data
{
    //Do not change the class name
    public class BMIDAO
```

```
{
        public static List<BMI> bmiData = new List<BMI>
                    new BMI{ PersonName="Ruchi", Age=21, DateOfRecord=new
DateTime(2001,02,15), Gender=Gender.Female , HeightInCm=156, WeightInKg=55,
CalculatedBMI=22.6 },
                    new BMI{ PersonName="Ruchi", Age=21, DateOfRecord=new
DateTime(2001,03,15), Gender=Gender.Female , HeightInCm=156, WeightInKg=54,
CalculatedBMI=22.2 },
                    new BMI{ PersonName="Aman", Age=25, DateOfRecord=new
DateTime(2001,02,15), Gender=Gender.Male, HeightInCm=176, WeightInKg=65,
CalculatedBMI=21.0 },
                    new BMI{ PersonName="Aman", Age=25, DateOfRecord=new
DateTime(2001,03,15), Gender=Gender.Male, HeightInCm=176, WeightInKg=66,
CalculatedBMI=21.3 }
               };
        public BMIDAO()
        {
            bmiData.OrderBy(b=>b.PersonName).ThenBy(b=>b.DateOfRecord);
        public List<BMI> GetBMIData()
        {
            return bmiData;
        }
        public void AddBMIData(BMI bmi)
            bmiData.Add(bmi);
            bmiData.OrderBy(b=>b.PersonName).ThenBy(b=>b.DateOfRecord);
        }
    }
Create.cshtml:
@model BMITrackerApp.Models.BMI
@{
    ViewBag.Title = "Create";
    Layout="_Layout.cshtml"
}
<h2>Create</h2>
<hr />
@*Implement view code here*@
@using (Html.BeginForm())
Person Name
        @Html.TextBoxFor(m=>m.PersonName)
```

```
<
      <button id="check">Check Existing Data</button>
   Age
      @Html.TextBoxFor(m=>m.Age)
   Gender
      @Html.DropDownListFor(m=>m.Gender,
         new SelectList(Enum.GetValues(typeof(Gender))), "Select")
   Date of Record
      @Html.EditorFor(m=>m.DateOfRecord)
   Weight In Kg
      @Html.TextBoxFor(m=>m.WeightInKg)
  Height In CM
      @Html.TextBoxFor(m=>m.HeightInCM)
  <input type="submit" value="Create">
   <div>
  @Html.ActionLink("Back to List", "Index")
</div>
@section Scripts {
   @Scripts.Render("~/bundles/jqueryval")
}
Index.cshtml:
@model IEnumerable<BMITrackerApp.Models.BMI>
@{
  ViewBag.Title = "Index";
   Layout="_Layout.cshtml"
}
<h2>Index</h2>
@*Implement view code here*@
@Html.ActionLink("Create New", "Create")
Person Name
      Age
      Gender
     Date of Record
      Height in CM
      Weight in Kg
```

```
Calculated BMI
   @foreach(var bmi in @Model)
   {
   bmi.PersonName
       bmi.Age
       bmi.Gender
       bmi.DateOfRecord
       bmi.HeightInCm
       bmi.WeightInKg
       bmi.CalculatedBMI
   }
_Layout.cshtml:
<!DOCTYPE html>
<html>
<head>
   <meta charset="utf-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>@ViewBag.Title - BMI Tracker</title>
   @Styles.Render("~/Content/css")
   @Scripts.Render("~/bundles/modernizr")
</head>
<body>
   <div class="navbar navbar-inverse navbar-fixed-top">
       <div class="container">
          <div class="navbar-header">
              <button type="button" class="navbar-toggle" data-toggle="collapse"</pre>
data-target=".navbar-collapse">
                 <span class="icon-bar"></span>
                 <span class="icon-bar"></span>
                  <span class="icon-bar"></span>
              </button>
              @Html.ActionLink("BMI Tracker", "Index", "BMI", new { area = "" },
new { id = "home", @class = "navbar-brand" })
          </div>
          <div class="navbar-collapse collapse">
              <a asp-page="/Index">Show All Data</a>
          <a asp-page="/Create">Create</a>
          </div>
       </div>
   </div>
   <div class="container body-content">
       @RenderBody()
       <hr />
       <footer>
          © @DateTime.Now.Year - App
       </footer>
   </div>
```

```
@Scripts.Render("~/bundles/jquery")
    @Scripts.Render("~/bundles/bootstrap")
    @RenderSection("scripts", required: false)
</body>
</html>
```