3. Create an MVC application to demonstrate extension methods and use layout.

Ans:

• Code:

```
HomeController.cs:
```

```
using System;
using MVCappliaction. Models;
using System.Collections.Generic;
using System.Ling;
using System. Web;
using System.Web.Mvc;
using System.Text;
namespace MVCappliaction.Controllers
  public class HomeController: Controller
    public ViewResult AutoProperty()
         Product p1 = new Product();
         p1.ProductID = 100;
         p1.Name = "Kayak";
         p1.Price = 1500;
         return View("AutoProperty", (object)String.Format("Price: {0}", p1.Price));
    public ViewResult CreateCollection()
       string[] stringArray = { "apple", "orange", "plum" };
       List<int> intList = new List<int> { 10, 20, 30, 40 };
       Dictionary<string, int> myDict = new Dictionary<string, int>
       { { "apple", 10 }, { "orange", 20 }, { "plum", 30 } };
       return View("Result", (object)stringArray[1]);
    public ViewResult UseExtension()
       ShoppingCart cart = new ShoppingCart
         Products = new List<Product>
         new Product {Name = "Kayak", Price = 275M},
         new Product {Name = "Lifejacket", Price = 48.95M},
         new Product {Name = "Soccer ball", Price = 19.50M},
         new Product {Name = "Corner flag", Price = 34.95M}
       };
       decimal cartTotal = cart.TotalPrices();
       return View("Result", (object)String.Format("Total: {0:c}", cartTotal));
    public ViewResult CreateAnonArray()
```

```
{
               var oddsAndEnds = new[] {
               new { Name = "MVC", Category = "Pattern" },
               new { Name = "Hat", Category = "Clothing" },
               new { Name = "Apple", Category = "Fruit" }
               StringBuilder result = new StringBuilder();
               foreach (var item in oddsAndEnds)
                 result.Append(item.Name).Append(" ");
               return View("Result", (object)result.ToString());
            Product myProduct = new Product
               ProductID = 1,
               Name = "Kayak",
               Description = "A boat for one person",
               Category = "Watersports",
               Price = 275M
             };
            public ActionResult Index()
               return View(myProduct);
}
Product.cs:-
       using System;
       using System.Collections.Generic;
       using System.Ling;
       using System.Web;
       namespace MVCappliaction.Models
          public class Product
            public int ProductID { get; set; }
            public string Name { get; set; }
            public string Description { get; set; }
            public decimal Price { get; set; }
            public string Category { set; get; }
          }
```

Index.cshtml:-

```
@model MVCappliaction.Models.Product
```

```
@{
  ViewBag.Title = "Product Name";
  Layout = "~/Views/_BasicLayout.cshtml";
<!DOCTYPE html>
<html>
<head>
  <meta name="viewport" content="width=device-width" />
  <title>Index</title>
</head>
<body>
  <div>
    Product Name = @Model.Name<br/>>
    Product price = @Model.Price
  </div>
</body>
</html>
```

_BasicLayout.cshtml :-

• Output



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