1. Write a program in C# to insert two books' information.

Test Data :

Insert the information of two books :

Information of book 1 :

Input name of the book : BASIC

Input the author : Kumar Mehra

Information of book 2 :

Input name of the book : C+

Input the author : Sainath Sharma

Expected Output:

1: Title = BASIC, Author = Kumar Mehra

2: Title = C+, Author = Sainath Sharma

Program1.cs

```csharp
using System.Collections;

namespace ModuleEndExam
{
    internal class Program
    {
        public class Book
        {
            public string? Name { get; set; }
            public string? Author { get; set; }
            public override string ToString()
            {
                return $"Title = {Name}, Author = {Author}";
            }

        }
        static void Main(string[] args)
        {
            Console.WriteLine("Enter information of books");
            List<Book> lst = new List<Book>();
            for (int i = 0; i < 2; i++)
            {
                Book book = new Book();
                Console.WriteLine($"Insert information of book {i + 1}");
```

```csharp
            Console.WriteLine("Enter name of Book :");
            book.Name = Console.ReadLine();
            Console.WriteLine("Enter name of Author :");
            book.Author = Console.ReadLine();
            lst.Add(book);
        }
        int j = 1;
        foreach (Book b in lst)
        {
            Console.WriteLine($"{j} " + b);
            j++;
        }
    }
}
}
```

```
Microsoft Visual Studio Debug Console                                                                           —    □    ✕
Enter information of books
Insert information of book 1
Enter name of Book :
Basic
Enter name of Author :
Raman Kumar
Insert information of book 2
Enter name of Book :
C++
Enter name of Author :
Jonny Bendo
1 Title = Basic, Author = Raman Kumar
2 Title = C++, Author = Jonny Bendo

D:\Visual Studio Programs\Q7etion1\ModuleEndExam\bin\Debug\net7.0\ModuleEndExam.exe (process 11056) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

2. Create a MVC program for calculating the speed in km/h when the speed is given in m/s. Display the output using ViewBag.

HomeController.cs

```csharp
using Microsoft.AspNetCore.Mvc;
using Qetion2.Models;
using System.Diagnostics;

namespace Qetion2.Controllers
{
    public class HomeController : Controller
    {
        private readonly ILogger<HomeController> _logger;

        public HomeController(ILogger<HomeController> logger)
        {
            _logger = logger;
        }

        public IActionResult Index()
        {
            return View();
        }
```

```csharp
        public ActionResult Calculate(double speed)
        {
            double speedInKmph = speed * 3.6;
            ViewBag.SpeedInKmph = speedInKmph;
            return View("Index");
        }

        public IActionResult Privacy()
        {
            return View();
        }

        [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None,
NoStore = true)]
        public IActionResult Error()
        {
            return View(new ErrorViewModel { RequestId = Activity.Current?.Id ??
HttpContext.TraceIdentifier });
        }
    }
}
```

Index.cshtml

```cshtml
@{
    ViewData["Title"] = "Home Page";
}

<div class="text-center">
    <h1 class="display-4">Welcome</h1>
</div>
<h2>Speed Converter</h2>

@using (Html.BeginForm("Calculate", "Home", FormMethod.Post))
{
    <label for="speed">Speed (m/s):</label>
    <br />
    <input type="number" name="speed" required />
    <br />
    <br />
    <input type="submit" value="Calculate" />
}
<br />
<hr />
    <h3>Speed in km/h: @ViewBag.SpeedInKmph</h3>
```

_Layout.cshtml

```cshtml
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>@ViewData["Title"] – Qetion2</title>
    <link rel="stylesheet" href="~/lib/bootstrap/dist/css/bootstrap.min.css" />
    <link rel="stylesheet" href="~/css/site.css" asp-append-version="true" />
    <link rel="stylesheet" href="~/Qetion2.styles.css" asp-append-version="true"
/>
```

```html
</head>
<body>
    <header>
        <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-light bg-white border-bottom box-shadow mb-3">
            <div class="container-fluid">
                <a class="navbar-brand" asp-area="" asp-controller="Home" asp-action="Index">Qetion2</a>
                <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target=".navbar-collapse" aria-controls="navbarSupportedContent"
                        aria-expanded="false" aria-label="Toggle navigation">
                    <span class="navbar-toggler-icon"></span>
                </button>
                <div class="navbar-collapse collapse d-sm-inline-flex justify-content-between">
                    <ul class="navbar-nav flex-grow-1">
                        <li class="nav-item">
                            <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Index">Home</a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Privacy">Privacy</a>
                        </li>
                    </ul>
                </div>
            </div>
        </nav>
    </header>
    <div class="container">
        <main role="main" class="pb-3">
            @RenderBody()
        </main>
    </div>

    <footer class="border-top footer text-muted">
        <div class="container">
            &copy; 2023 - Qetion2 - <a asp-area="" asp-controller="Home" asp-action="Privacy">Privacy</a>
        </div>
    </footer>
    <script src="~/lib/jquery/dist/jquery.min.js"></script>
    <script src="~/lib/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
    <script src="~/js/site.js" asp-append-version="true"></script>
    @await RenderSectionAsync("Scripts", required: false)
</body>
</html>
```
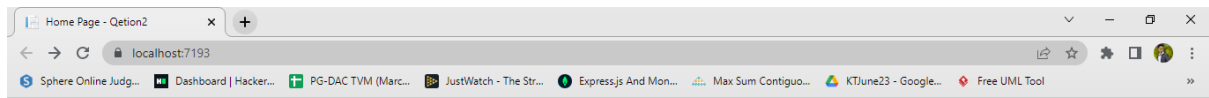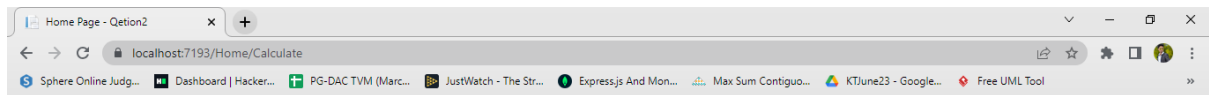
localhost:7193

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Speed Converter   Home   Privacy

Welcome

Speed Converter

Speed (m/s):

45

Calculate

Speed in km/h:

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Calculate

Speed in km/h: 162

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