Q.1. Write a C# Sharp program to create a text file and read it.

Expected Output:

Here is the content of the file mytest.txt:

Hello and Welcome

It is the first content

Of the text file mytest.txt

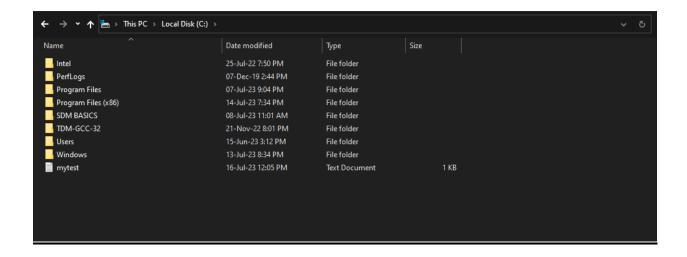
Git Lab link:- https://github.com/AniketShinde9598/Dotnet_LabExam.git

Code:-

```
namespace TextFileHandling
    internal class Program
        static void Main(string[] args)
            WriteToTextFile();
            Console.WriteLine("Here is the content of the file mytest.txt:");
            ReadFromTextFile();
        }
        private static void WriteToTextFile()
            // Path to the text file
            StreamWriter writer = File.CreateText("C:\\mytest.txt");
            writer.WriteLine("Hello and Welcome");
            writer.WriteLine("It is the first content");
            writer.WriteLine("Of the text file mytest.txt");
            writer.Close();
        }
        private static void ReadFromTextFile()
            string? s;
            StreamReader reader = File.OpenText("C:\\mytest.txt");
            while ((s = reader.ReadLine()) != null)
                Console.WriteLine(s);
           reader.Close();
        }
   }
}
```

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Output:-





Output on Console:-

```
EM Microsoft Visual Studio Debug Console
Here is the content of the file mytest.txt:
Hello and Welcome
It is the first content
Of the text file mytest.txt

f:\PGDAC JAVA\Dot_Net_C#_Programs\Websites\TextFileHandling\TextFileHandling\bin\Debug\net7.0\TextFileHandling.exe (process 20852) 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 . . .
```

Q.2. Create a MVC program for calculating the fuel economy in L/100 km when the fuel economy is given in km/L. Display the output using View Bag.

Program.cs:-

```
namespace FuelEconomyCalculator
    public class Program
        public static void Main(string[] args)
            var builder = WebApplication.CreateBuilder(args);
            // Add services to the container.
            builder.Services.AddControllersWithViews();
            var app = builder.Build();
            // Configure the HTTP request pipeline.
            if (!app.Environment.IsDevelopment())
                app.UseExceptionHandler("/Home/Error");
            app.UseStaticFiles();
            app.UseRouting();
            app.UseAuthorization();
            app.MapControllerRoute(
                name: "default",
                pattern: "{controller=Home}/{action=Index}/{id?}");
            app.Run();
        }
    }
}
```

HomeController:-

```
using FuelEconomyCalculator.Models;
using Microsoft.AspNetCore.Mvc;
using System.Diagnostics;

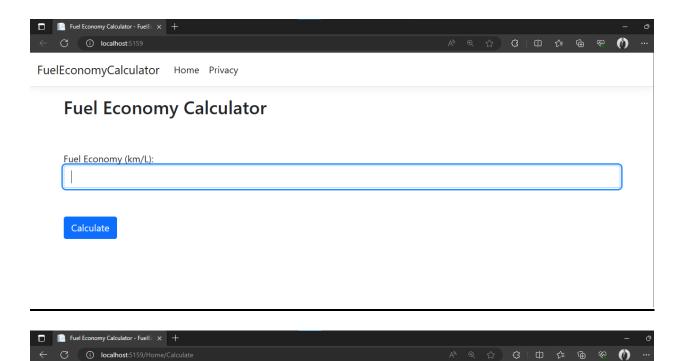
namespace FuelEconomyCalculator.Controllers
{
    public class HomeController : Controller
    {
        private readonly ILogger<HomeController> _logger;
```

```
public HomeController(ILogger<HomeController> logger)
            _logger = logger;
        }
        public IActionResult Index()
            return View();
        }
        [HttpPost]
        public ActionResult Calculate(double fuelEconomy)
            double fuelConsumption = 100 / fuelEconomy;
            ViewBag.FuelConsumption = fuelConsumption;
            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:-

```
}
<br />
@if (ViewBag.FuelConsumption != null)
{
     <h3>The Fuel Consumption is @ViewBag.FuelConsumption L/100 KM.</h3>}
```

Output:-



Fuel Economy Calculator

FuelEconomyCalculator Home Privacy

Fuel Economy (km/L):

Calculate



The Fuel Consumption is 10 L/100 KM.