

STUDENT.CS

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Section_8
{
    public class Student
    {
        public string Name { get; set; }
        public string Class { get; set; }
    }
}
```

PROGRAM.CS

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Section_8
{
    public class Program
    {
        static List<Student> ReadStudentData(string fileName)
        {
            List<Student> students = new List<Student>();

            try
            {
                string[] lines = File.ReadAllLines(fileName);

                foreach (string line in lines)
```

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace Section_8
{
    public class Program
    {
        static List<Student> ReadStudentData(string fileName)
        {
            List<Student> students = new List<Student>();

            try
            {
                string[] lines = File.ReadAllLines(fileName);

                foreach (string line in lines)
                {
                    string[] parts = line.Split(',');
                    if (parts.Length == 2)
                    {
                        students.Add(new Student { Name = parts[0], Class = parts[1] });
                    }
                }
            }
        }
    }
}
```

```

    }
    catch (FileNotFoundException)
    {
        Console.WriteLine($"File '{fileName}' not found.");
    }

    return students;
}
static void SortData(List<Student> students)
{
    students.Sort((s1, s2) => s1.Name.CompareTo(s2.Name));
}

static List<Student> SearchData(List<Student> students, string name)
{
    return students.FindAll(s => s.Name.ToLower() == name.ToLower());
}

static void DisplayData(List<Student> students)
{
    if (students.Count == 0)
    {
        Console.WriteLine("No student data available.");
    }
    else
    {
        Console.WriteLine("Student Data:");
        foreach (Student student in students)
        {
            Console.WriteLine($"Name: {student.Name}, Class: {student.Class}");
        }
    }
}

static void Main(string[] args)
{
    string fname =
"C:\\Users\\Keerthana\\OneDrive\\Desktop\\job\\simpli\\Projects\\Section_8\\Section_8\\Student
Data.txt";

    // Reading student data from the file
    List<Student> studata = ReadStudentData(fname);

    char ch;
    do
    {
        Console.WriteLine("Select\n1.Display data\n2.SortData\n3.Search for student
using name");
        int choice=int.Parse(Console.ReadLine());
        switch (choice)
        {
            case 1:
                Console.WriteLine("Display Data");
                DisplayData(studata);
                break;
            case 2:
                Console.WriteLine("Sort Data");
                SortData(studata);
                DisplayData(studata);
                break;
            case 3:
                Console.WriteLine("Search for student using name\n");
                Console.Write("Enter the name of the student to search for: ");
                string searchName = Console.ReadLine();

                List<Student> searchResult = SearchData(studata, searchName);
                if (searchResult.Count > 0)
                {

```

```
        Console.WriteLine("Search Results:");
        DisplayData(searchResult);
    }
    else
    {
        Console.WriteLine($"No student found with the name
'{searchName}'.");
    }

    break;
}
Console.WriteLine("If you want to continue press y");
ch = char.Parse(Console.ReadLine().ToLower());
} while (ch == 'y');
Console.ReadKey();
}
}
```