Source Code

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

namespace Assignment

{

internal class Program

{

static readonly string textFile = @"G:\SimpliLearn\Assignments\Read from Text File with Searching and Sorting\Assignment\StudentDetails.txt";

static void Main(string[] args)

{

bool flag = true;

var StudentDetails = new Dictionary<string, int>();

if (File.Exists(textFile))

{

using (StreamReader file = new StreamReader(textFile))

{

string ln;

while ((ln = file.ReadLine()) != null)

{

string[] student = ln.Split(',');

StudentDetails.Add(student[0], int.Parse(student[1]));

}

file.Close();

}

}

while (flag)

{

Console.WriteLine("Student Details Read from file.\n\nChoose from the below operations\n1.Display unsorted Data\n2.Sort data by Name and display\n3.Sort data by Class and display\n4.Search by Name");

int op = int.Parse(Console.ReadLine());

switch (op)

{

case 1:

{

foreach (KeyValuePair<string, int> student in StudentDetails)

{

Console.WriteLine("Name: {0}, Class: {1}", student.Key, student.Value);

}

}

break;

case 2:

{

var orderedByName = StudentDetails.OrderBy(x => x.Key).ToDictionary(x => x.Key, x => x.Value);

foreach (KeyValuePair<string, int> student in orderedByName)

{

Console.WriteLine("Name: {0}, Class: {1}", student.Key, student.Value);

}

}

break;

case 3:

{

var orderedByClass = StudentDetails.OrderBy(x => x.Value).ToDictionary(x => x.Key, x => x.Value);

foreach (KeyValuePair<string, int> student in orderedByClass)

{

Console.WriteLine("Name: {0}, Class: {1}", student.Key, student.Value);

}

}

break;

case 4:

{

Console.WriteLine("Enter the name you want to search");

string name = Console.ReadLine().ToLower();

foreach (KeyValuePair<string, int> student in StudentDetails)

{

if (student.Key.ToLower() == name)

{

Console.WriteLine("Name: {0}, Class: {1}", student.Key, student.Value);

}

}

}

break;

default:

{

Console.WriteLine("Wrong input");

}

break;

}

Console.WriteLine("\n");

Console.WriteLine("Press Y if you want to return to main menu");

if (Console.ReadLine().ToLower() != "y")

{

flag = false;

}

}

Console.ReadKey();

}

}

}