using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.IO;

namespace Sort\_Search\_from\_Files

{

internal class Program

{

static void Main(string[] args)

{

//Console.WriteLine("------Print Splitted Contents from file------");

//foreach (var item in Contents)

//{

// Console.WriteLine(item + '\n');

//}

Console.WriteLine("-------DSA PROJECT-----------");

string p = "C:\\Users\\SHYAM SUNDER\\Desktop\\SL\_projects\\Practice projects\\Project 2 - DSA\\data.txt";

string[] cont=null;

Console.WriteLine("---- <READ >-------");

FileStream fs = new FileStream(p, FileMode.Open, FileAccess.Read);

StreamReader sr = new StreamReader(fs);

var con = sr.ReadLine().Split('|');

cont = con;

foreach (var item in con)

{

Console.WriteLine(item);

}

fs.Close();

sr.Close();

Console.WriteLine("Menu\n1.Searching\n2.Sorting");

Console.WriteLine("Enter choice :") ;

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

switch (choice)

{

case 1:

Search(p, cont);

break;

case 2:

Sorts(p, cont);

break;

default:

break;

}

}

private static void Search(string p, string[] cont)

{

Console.WriteLine("Enter student name to search :");

string studname=Console.ReadLine();

bool status = false;

foreach (var item in cont)

{

if(item.Split(',')[0] == studname)

{

Console.ForegroundColor= ConsoleColor.Green;

Console.WriteLine("Student FOUND");

Console.WriteLine($"NAME :{item.Split(',')[0]}");

Console.WriteLine($"CLASS :{item.Split(',')[1]}");

Console.ForegroundColor = ConsoleColor.White;

status = true;

}

}

if(status==false)

{

Console.ForegroundColor = ConsoleColor.Red;

Console.WriteLine("Student NOT FOUND");

Console.ForegroundColor = ConsoleColor.White;

}

}

private static void Sorts(string p, string[] cont)

{

Console.WriteLine("< SORTED STUDENT DETAILS >");

List<string> studlist = new List<string>(cont);

studlist.Sort( (a,b) => a.Split(',')[0].CompareTo(b.Split(',')[0])); //comp based on name

foreach (var item in studlist)

{

Console.WriteLine(item);

}

}

}

}