using System;

using System.Collections.Generic;

using System.IO;

namespace ConsoleProjektH1

{

class Program

{

static void Main(string[] args)

{

MyFunctions mf = new MyFunctions();

while (true)

{

Console.Write(":>");

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

switch (input)

{

case "showall":

mf.ShowAll();

break;

default:

if (input.StartsWith("addperson"))

{

mf.AddPerson(input.Substring("addperson".Length + 1).Replace(" ", ""));

}

else if (input.StartsWith("deleteperson"))

{

mf.DeletePerson(input.Substring("deleteperson".Length + 1).Replace(" ", ""));

}

else if (input.StartsWith("changeperson"))

{

string[] stringArray = input.Split(' ');

mf.ChangePerson(stringArray[1], stringArray[2]);

}

break;

}

}

}

}

class MyFunctions

{

// Show the entire list

public void ShowAll()

{

List<string> stringList = AlterNameList();

foreach (var name in stringList)

{

if (name != "")

{

Console.WriteLine(name);

}

}

}

// Add a person at the end of the list

public void AddPerson(string b)

{

File.AppendAllText(Environment.CurrentDirectory + "\\NameList.txt", Capitalize(b) + ";");

}

// Remove a person with a specific name

public void DeletePerson(string b)

{

List<string> stringList = AlterNameList();

stringList.Remove(Capitalize(b));

File.WriteAllText(Environment.CurrentDirectory + "\\NameList.txt", "");

foreach (var name in stringList)

{

File.AppendAllText(Environment.CurrentDirectory + "\\NameList.txt", Capitalize(name) + ";");

}

}

// Change the person with a specific name, to another name

public void ChangePerson(string b, string c)

{

List<string> stringList = AlterNameList();

string CapitalizedB = Capitalize(b);

string CapitalizedC = Capitalize(c);

stringList[stringList.IndexOf(CapitalizedB)] = CapitalizedC;

File.WriteAllText(Environment.CurrentDirectory + "\\NameList.txt", "");

foreach (var name in stringList)

{

File.AppendAllText(Environment.CurrentDirectory + "\\NameList.txt", Capitalize(name) + ";");

}

}

// Capitalize the first letter in a string / char array

public string Capitalize(string a)

{

char[] newCharArray = a.ToCharArray();

if (a != "")

{

newCharArray[0] = char.ToUpper(a[0]);

}

return new string(newCharArray);

}

// Fetch the list of names for alteration

public List<string> AlterNameList ()

{

string content = File.ReadAllText(Environment.CurrentDirectory + "\\NameList.txt");

List<string> stringList = new List<string>();

foreach (var name in content.Split(';'))

{

if (name != "")

{

stringList.Add(Capitalize(name));

}

}

return stringList;

}

}

}