User List

Tata Steel uses a software system called EMS(Event Management System) for managing seminars and meetings within the departments. Employees can use this system to reserve meeting space and specify technical services for their events.

Write a program to read the users who have reserved the meeting space and display the same using a List.

Problem Specifications

The Main Class file name should be ${\bf Program.cs}$ and the class name should be Program.

Use List with generic type string. Get the names of the user as input and store it in the list. Display the names of the user in the list.

Input and Output Format

Refer sample input and output for formatting specification

All text in bold corresponds to the input and rest corresponds to the output.

Sample Input and Output

```
Enter number of users: 5
Enter name of the users: guru priyanka kavitha gowtham manoj Name of users in the list: guru priyanka kavitha gowtham waxiba kavitha gowtham kavitha gowtham
```

manoj

```
X
  Program.cs/
    using System;
    using System.Collections.Generic;
 3
    public class Program
 4
 5
        public static void Main()
 6
            Console.WriteLine("Enter number of users:");
 7
8
             int n = Convert.ToInt32(Console.ReadLine());
9
             List<string> user= new List<string>();
10
             Console.WriteLine("Enter name of the users:");
11
             for (int i= 0; i < n;i++)
12
13
                 user.Add(Console.ReadLine());
14
15
             Console.WriteLine("Name of users in the list:");
             foreach(var i in user)
16
17
18
                 Console.WriteLine(i);
19
20
             Console.ReadLine();
21
22
```

The placement coordinator prepares a statistics to know which company has given maximum number of offers to the students of his college every year. He stores the company name and number of offers in a dictionary. Here company name is the key and number of offers is the value.

Write a program to display the name of the company which has given the maximum number of offers this year. The program should contain the following attributes, _companyname - string

offers - int

Problem Specifications:

The Main Class file name should be Program.cs and the class name should be Program.

Use Dictionary with generic type <string, int >. Get the company names and number of offers as input and store it in the Dictionary. Display the name of the company which has given the maximum number of offers this year.

Input and Output Format:

Refer sample input and output for formatting specifications.

Input consists of number of companies who visited the campus this year, company name and number of recruitment offers given by the company. Output consists of company name with maximum of recruitments.

All text in bold corresponds to input and the rest corresponds to output.

```
Sample Input and Output:
```

```
Enter the number of companies
Enter the details of the company 1
Amphisoft Technologies
Enter the details of the company 2
E-box Academy
Enter the details of the company 3
InfoView
Amphisoft Technologies
```

```
Program.cs/
       using System;
using System.Collections.Generic;
 1
      using System.Linq;
using System.Text;
       using System. Threading. Tasks;
 6
       namespace CollectionsP1
 7
 9
              class Program
10
                    static void Main(string[] args)
11
12
13
                           Console.WriteLine("Enter the number of companies");
n = Convert.ToInt32(Console.ReadLine());
Dictionary<string, int> users = new Dictionary<string, int>();
for(int i = 1; i <= n; i++)
14
15
16
17
18
                                  Console.WriteLine("Enter the details of the company " + i);
string str = Console.ReadLine();
int offer = Convert.ToInt32(Console.ReadLine());
19
20
21
22
                                  users.Add(str, offer);
23
                           int[] num = new int[users.Count];
users.Values.CopyTo(num, 0);
foreach(var item in users)
24
26
27
28
                                  if(item.Value == num.Max())
29
30
                                        Console.WriteLine(item.Key);
32
                           Console.ReadLine();
33
34
                    1
35
       }
36
```

Sort Hall Details - IComparable Interface

[Note:

Strictly adhere to the object-oriented specifications given as a part of the problem statement. Follow the naming conventions as mentioned. Create separate classes in separate files.]

Create a class Hall with the following private member variables/attribute which extends IComparable interface.

Data Type	Variable
string	_name
long	_mobileNo
string	_ownerName
double	costPerDay

Include appropriate properties.

Include a four-argument constructor with parameters in the following order,

public Hall(string _name, long _mobileNo, string _ownerName, double _costPerDay)

Override CompareTo Method in Hall class which compares the halls based on costPerDay of the halls.

 $Override \ \textbf{ToString()} \ method \ in \ the \ \textbf{Hall} \ class \ to \ display \ the \ Hall \ details \ specified \ in \ the \ specified \ format.$

 $string. Format ("\{0,-20\} \ \{1,-15\} \ \{2,-15\} \ \{3,-10\}", _name, _mobileNo, _ownerName, _costPerDay)$

Note: Consider the costPerDay of halls are unique.

Create Program class with Main method, get the number of halls and hall details.

Get Hall details in a comma separated format in the following order (name,mobileNo,ownerName,costPerDay).

Display the sorted hall details.

Input and Output Format

Refer sample input and output for formatting specifications.

All text in bold corresponds to the input and the rest corresponds to output.

Sample Input And Output 1:

Enter total number of halls

2

Enter Hall Details

royal orchid,9092304616,John,25000 Sodit Banquet,9381415278,peter,14000

 Hall Name
 ContactNo
 OwnerName
 CostPerDay

 Sodit Banquet
 9381415278
 peter
 14000

 royal orchid
 9092304616
 John
 25000

```
Program.cs/
using System.Threading.Tasks;
                                                                                                                                                                                                                                                                                                                                                                                                                                     5 using System.Text;
6 using System.Threading.Tasks;
namespace Collections3P
                                                                                                                                                                                                                                                                                                                                                                                                                                                 namespace Collections3P
            class Hall · IComparable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 class Program
                          private string _name; private long _mobileNo; private string _ownerName; private double _costPerDay; public Hall(string _name, long _mobileNo, string _ownerName, double _costPerDay)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               static void Main(string[] args)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           string str;

chan del = Convert.IoChar(",");

String[] split_str;

ListcHallb hallList = new ListcHallb();

Console.WriteLine("Enter total number of halls");

int ch = Convert.IoLnt32(Console.ReadLine());

Console.WriteLine("Enter Hall Details");
                                          this.Name = _name; this.MobileNo = _mobileNo; this.OwnerName = _ownerName; this.CostPerDay = _costPerDay;
                       public string Name { get -> name; set -> name = value; }
public long NobileNo { get -> _nobileNo; set -> _nobileNo = value; }
public string NomerName { get -> _nomerName; set -> _omerName = value; }
public double CostPerNoy { get -> _costPerNoy; set -> _costPerNoy = value; }
public int CompareTo(Orject obj)
                                                                                                                                                                                                                                                                                                                                                                                                                        18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hall obj1;
for(int i = 0; i < ch; i++)
                                      Hall h = (Hall)obj;
if (this._costPerDay > h._costPerDay)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               split str = str.Split(del);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              spint_str = str.apint(eq);
String name = spilt_str[0];
long_mobilelo = Convert.loInt64(spilt_str[1]);
String_momenlame = spilt_str[2];
double_costFerbay = Convert.loQouble(spilt_str[3]);
bpil = new Hall(_name, _mobilelo, _ounerWame, _costFerGay);
spilt_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_abuf_str_ab
                                          else if (this._costPerDay < h._costPerDay)
                                                      return -1;
                                          else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              halllist.Sort();
Console.WriteLine(string.Format("{0, -20}{1, -15}{2, -15}{3, -10}", "Hall Name", "ContactNo", "OwnerName", "CostPerDay"));
foreach(Hall h in halllist)
                            public override string ToString()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Console.WriteLine(h.ToString());
                                           return \ (string.Format("\{0,-20\}\ \{1,-15\}\ \{2,-15\}\ \{3,-10\}", \ \_name, \ \_mobileNo, \ \_ownerName, \ \_costPerDay));
```

PROBLEM

Raquel is the director of a Event management company. She decided to manage all the events details using a application. Franziska helped them in creating a application. Now they have started using the application. While uploading the hall details, they found that there are dual entries for some of the hall.

Write a C# program to get the hall names from the user and display the unique hall names use IEnumerator to iterate the set.

Create Program class with Main method, get the list of hall names and display the unique hall entries.

Refer sample input and output for formatting specifications.

All text in bold corresponds to the input and the rest corresponds to output.

Sample Input And Ouput:

Enter the hall name Hall Paradise Do you want to add hall?(Yes/No) Enter the hall name Rudolfinum Do you want to add hall?(Yes/No) The Walt Disney Concert Hall Do you want to add hall?(Yes/No) Enter the hall name Do you want to add hall?(Yes/No) Unique halls: Hall Paradise

Rudolfinum

The Walt Disney Concert Hall

```
Program.cs/
      using System;
using System.Collections;
 2
      using System.Collections.Generic;
 3
      using System.Linq;
class Program
 5
 7
             static void Main(string[] args)
 9
                   string addhall;
10
                   string a=null;
11
                   List<string> hallname = new List<string>();
12
                   do
13
                         Console.WriteLine("Enter the hall name");
string Hallname = Console.ReadLine();
14
15
                   hallname.Add(Hallname);
Console.WriteLine("Do you want to add hall?(Yes/No)");
addhall = Console.ReadLine();
}while(addhall.ToLower()=="yes");
16
17
18
19
                   IEnumerable<string> distincthallname = hallname.Distinct();
Console.WriteLine("Unique halls:");
foreach (string hallName in distincthallname)
20
21
22
23
                         Console.WriteLine(hallName);
24
25
26
                   Console.ReadLine();
27
28
       }
```