

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Runtime.Serialization.Formatters.Binary;
using System.Text;
using System.Threading.Tasks;

namespace Retest1
{
    public class CollegeMembers
    {
        public string id;
        public string name;
        public int age;
        public string address;
        public class Student : CollegeMembers
        {
            public string CourseName;
        }
        public class Staff : CollegeMembers
        {
            public string DepartmentName;
        }
    }

    class MemberNotFoundException : Exception
    {
        public MemberNotFoundException(String message)
            : base(message)
        {
        }
    }

    class TestUserDefinedException
    {
        public TestUserDefinedException(){
            throw new MemberNotFoundException("Sorry, you are not in the list");
        }
    }
}
```

```

class MemberListMaking
{
    private void membersList(String id, string name, string age, String course)
    {
        var Member = new List<String>(new String[] { id, name, age, course });
        Member.Add("Student,Dhivya,21,B.SC");
        Member.Add("Student,Lilli,22,B.E");
        Member.Add("Student,Diya,20,B.Tech");
        Member.Add("Student,Logu,19,B.E");
        Member.Add("Staff,Chinnu,45,Accounts");
        Member.Add("Staff,Malar,42,English");

        foreach (var member in Member)
        {
            Console.WriteLine(Member);
        }
    }
}
class Members
{
    static void Main(string[] args)
    {
        FileStream stream = new FileStream("C:\\CollegeMembers.txt",
        FileMode.OpenOrCreate);
        BinaryFormatter formatter = new BinaryFormatter();

        formatter.Serialize(stream, membersList());
        stream.Close();

        try
        {
        }

        catch(MemberNotFoundException e) { Console.WriteLine(e); }
    }

    private static object membersList()
    {

```

```
        throw new NotImplementedException();  
    }  
}
```