Milestone-1 Assessment-Retest

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```csharp
using Microsoft.Office.Interop.Excel;
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Runtime.InteropServices;
using System.Runtime.Serialization.Formatters.Binary;
using System.Text;
using System.Threading.Tasks;

namespace CollegeManagement
{

    public class CollegeData
    {
        private string id;
        private string name;
        private int age;
        private string address;
        public string Id { get => id; set => id = value; }
        public string Name { get => name; set => name = value; }
        public int Age { get => age; set => age = value; }
        public string Address { get => address; set => address = value; }
        public CollegeData()
        { }
        public CollegeData(string Id, string Name, int Age, string Address)
        {
            this.Id = Id;
            this.Name = Name;
            this.Age = Age;
            this.Address = Address;
        }
        public override string ToString()
        {
            return base.ToString();
        }

    }

    class Staff : CollegeData
    {
        private string departmentName; public string DepartmentName { get =>
departmentName; set => departmentName = value; }
        public Staff() { }
        public Staff(string Id, string Name, int Age, string Address, string
DepartmentName)
        {
            base.Id = Id;
            base.Name = Name;
            base.Age = Age;
            base.Address = Address;
```

```csharp
            this.DepartmentName = DepartmentName;
        }
        public override string ToString()
        {
            return base.Id + " " + base.Name + " " + base.Age + " " + base.Address +
" " + this.DepartmentName;
        }
        Staff staff = new Staff();
        public string CreateStaff(int age, string name, string departmentName)
        {
            staff.Age = age;
            staff.Name = name;
            staff.DepartmentName = departmentName; return "Staff inserted
succcessfully";
        }
        internal void printfo()
        {
            throw new NotImplementedException();
        }
    }
    public class Student : CollegeData
    {
        private string course; public string Course { get => course; set => course =
value; }
        public Student() { }
        public Student(string Id, string Name, int Age, string Address, string
Course)
        {
            base.Id = Id;
            base.Name = Name;
            base.Age = Age;
            base.Address = Address;
            this.Course = Course;
        }
        public override string ToString()
        {
 return base.Id + " " + base.Name + " " + base.Age + " " + base.Address + " " +
this.Course;
        }
        Student stu = new Student();
        public string CreateStudent(string id, string name, int age)
        {
            stu.Id = id;
            stu.Name = name;
            stu.Age = age; return "Student inserted succcessfully";
        }
        public Student ReadStudent(int id)
        {
            if (stu.Id.Equals(id))
            {
                return stu;
            }
            return null;
        }
    }
    public class DataSerializer
    {
        public void BinarySerializer(object data, string filepath)
```

```csharp
        {
            object obje = null;

            FileStream filestream;

            BinaryFormatter bf = new BinaryFormatter();

            if (File.Exists(filepath))

                filestream = File.Create(filepath);

            bf.Serialize(filestream, data);

            filestream.Close();
        }
        internal class program
        {
            static void Main(string[] args)
            {
                CollegeData cmd = new CollegeData() { Id = "m10", Name = "Karthik",
Age = 22, Address = "Hyderabad" };

                if (cmd.Name.Length > 15)
                {
                    Console.WriteLine("Name   not be more than 15 characters");
                    Console.ReadLine();
                }
                else
                {
                    string filepath = "D:\\\\CSV\\CollageData.txt";

                    DataSerializer dataserializer = new DataSerializer();

        CollegeData c = null;

  dataserializer.BinarySerializer(cmd, filepath);

//c = dataserializer.BinarySerializer(filepath) as CollegeData;

  Console.WriteLine(c.Id);

 Console.WriteLine(c.Name);

 Console.WriteLine(c.Age);

 Console.WriteLine(c.Address); Student student1 = new  Student("011", "Suresh", 23,
"Vizag", "Bcom");


 Student student2 = new Student("012", "Vinay", 23, "Vijayawada",          "Btech");

 Student student3 = new Student("013", "Sai kiran", 24, "Guntur", "mtech");

 Student student4 = new Student("014", "Sravan", 20, "Nalgonda", "bsc");

 Staff staff1 = new Staff("015", " Priyanka",36, "   Warangal", "Mathematics");

  Staff staff2 = new Staff("016", " Venkat", 42, "Secunderabad", "Science");
```

```csharp
                Student student = new Student();

                //Student.displayStudent();

                Staff a = new Staff("S001", "Mary", 34, "Hyderabad",
"accounts");

                Student a1 = new Student("S002", "John", 21, "Mumbai",
"B.tech"); a.printfo();

                Microsoft.Office.Interop.Excel.Application app = new
Microsoft.Office.Interop.Excel.Application();

                Workbook wb = app.Workbooks.Open("D:\\Hello\\AccountInfo.xlsx");

                object worksheets = wb.Worksheets; if (wb != null)
                {
                    Microsoft.Office.Interop.Excel.Worksheet sheet =
wb.Worksheets[1];

                    if (sheet != null)
                    {
                        Microsoft.Office.Interop.Excel.Range usedRange =
sheet.UsedRange;

                        Microsoft.Office.Interop.Excel.Range rg = usedRange; if
(rg != null)

                        { for (int r = 1; r < rg.Count; r++)
 Console.WriteLine(rg.Cells[r][1].Value2); }
                    }
                }
                Marshal.ReleaseComObject(wb); Marshal.ReleaseComObject(app);

                Marshal.ReleaseComObject(worksheets);

            }
        }
    }
}
```