Assignment-Collections301

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```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;


    class Payroll
    {
        static void Main(string[] args)
        {
            List<Employee> employees  = new List<Employee>();
            employees.Add(new ContractEmployee()
            {
                Id = 1,
                Name = "Srija",
                PerDayPay = 1550,
                NoOfWorkDays = 25

            });
            employees.Add(new permanentEmployee()
            {
                Id = 2,
                Name = "Aruna",
                HRA = 17000,
                DA = 27000

            });
        foreach (Employee emp in employees)
        {
            emp.printpay();
        }

        }
    }
    public class Namecomparer:IComparer<Employee>
    {
        public int Compare(Employee x, Employee y)
        {
            return x.Name.CompareTo(y.Name);
        }
    }
    public class PSIDComparer:IComparer<Employee>
    {
        public int Compare(Employee x, Employee y)
        {
            if(x.Id<y.Id)
                return -1;
            else if(x.Id<y.Id)
            {
                return 1;
```

```csharp
            }
            else
            {
                return 0;
            }
        }
    }
    public class Employee
    {
        public int Id { get; set; }
        public string Name { get; set; }
        public virtual void printpay()
        {

        }
    }
    public class ContractEmployee : Employee
    {
        public int PerDayPay { get; set; }
        public int NoOfWorkDays { get; set; }

        public override void printpay()
        {
            int gross = PerDayPay * NoOfWorkDays;
            Console.WriteLine("Contract Employee Pay:" + gross);

        }
    }
    public class permanentEmployee : Employee
    {
        public int HRA { get; set; }

        public int DA { get; set; }

        public override void printpay()
        {
        int gross = HRA + DA;
                Console.WriteLine("Permanent Employee Pay:" + gross);

        }
    }
```

Output