

Assignment-collection302

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Source code

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

namespace collection_2
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Queue<Employee> emp = new Queue<Employee>();
            emp.Enqueue(new ContractEmployee()
            {
                Id = 1,
                Name = "Karthik",
                PerDayPay = 1670,
                WorkingDays = 25,
            });
            emp.Enqueue(new ContractEmployee()
            {
                Id = 2,
                Name = "Dhoni",
                PerDayPay = 1978,
                WorkingDays = 28,
            });
            emp.Enqueue(new PermanentEmployee()
            {
                Id = 3,
                Name = "Ntr",
                HRA = 24300,
                DA = 21000,
            });
            emp.Enqueue(new PermanentEmployee()
            {
                Id = 4,
                Name = "Jadeja",
                HRA = 27000,
                DA = 20500,
            });
            foreach (Employee e in emp)
            {
                e.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;
        }
        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 WorkingDays { get; set; }

    public override void printpay()
    {
        int gross = PerDayPay * WorkingDays;
        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

```
C:\Windows\system32\cmd.exe  
Contract Employee Pay:41750  
Contract Employee Pay:55384  
Permanent Employee Pay:45300  
Permanent Employee Pay:47500  
Press any key to continue . . .
```