

Assignment-Handle Exception401

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

internal class Program
{
    static void Main(String[] args)
    {
        Queue<Employee> emp = new Queue<Employee>();
        emp.Enqueue(new ContractEmployee()
        {
            empid = 101,
            empname = "Karthik",

            perdaypay = 2500,
            noofworkdays = 20,
        });
        emp.Enqueue(new ContractEmployee()
        {
            empid = 101,
            empname = "Hussain",
            perdaypay = 2000,
            noofworkdays = 20
        });
        emp.Enqueue(new PermanentEmployee()
        {
            empid = 102,
            empname = "Suresh",
            HRA = 19000,
            DA = 26000
        });
        emp.Enqueue(new PermanentEmployee()
        {
            empid = 103,
            empname = "Shiva",
            HRA = 25000,
            DA = 29877
        });
        foreach (Employee e in emp)
        {
            e.printPay();
        }
    }
}

public class NameComparer : IComparer<Employee>
{
    public int Compare(Employee x, Employee y)
    {
        return x.empname.CompareTo(y.empname);
    }
}
```

```

}
public class PSIDComparer : IComparer<Employee>
{
    public int Compare(Employee x, Employee y)
    {
        if (x.empid < y.empid)
            return -1;
        else if (x.empid > y.empid)
        {
            return 1;
        }
        else
        {
            return 0;
        }
    }
}
public class Employee
{
    public int empid { get; set; }
    public string empname { 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);
    }
}

```

C:\Windows\system32\cmd.exe

Contract Employee Pay:2520
Contract Employee Pay:2020
Permanent Employee Pay:45000
Permanent Employee Pay:54877
Press any key to continue . . .