Topic – OOPS, Collection & User Defined Exception

Start new Project as Class Library. Name it as HRLib

```
Create Employee Class
Employee
Name - property
Address – property
```

Define Constructor with parameter (2 Parameter)

Define abstract method CalculateSalary

Write sub class ConfirmEmployee. Derived from Employee

```
Variables / Properties
Basic
Designation
```

Define parameterized constructor (4 arguments)
Calculate salary and this method cannot be "override" by child class
If Basic >= 30000

Hra - 30% of basic Conv - 30% of basic PF - 10% of basic

If Basic >= 20000 Hra - 20% of basic Conv - 20 % of basic PF - 10% of basic

Else

Hra – 10% of basic Conv – 10 % of basic PF – 10% of basic

NetSalary = basic + Hra + Conv - pf

Define Trainee class. Derived from Employee Properties

No of Days Rate per day

Define parameterized constructor (4 parameters)

CalculateSalary – NoOfDays * Rate

Override ToString() method in all classes

Create Empno as a int property which is auto generated unique value (means you will not take this value from the user but program internally generate and assign unique value)

Exception Handling

Keep check that for Confirm Employee minimum basic is Rs. 5000 through User Defined Exception

Create Console Application. Name it as HRAPP

Create single generic collection object

Write menu driven program.

- 1. Display All Employees
- 2. Insert Confirm Employee
- 3. Insert Trainee
- 4. Delete Employee
- 5. Display Employee by No

Insert - Accept value from the user and insert record

Delete Employee - Take Empno from the user and if exist delete the record else display proper message

Display Employee by No – Take Empno from the user and display employee detail if exist else display proper error message

Run the program till user wish.

Exception Handling for minimum basic 5000