

ASSIGNMENT 10

1. Create an C# application as following:

a. Create an abstract class '**Employee**' with specifications as followed:

Private Fields:

Srno.	Identifiers	Data type
1	ID	String
2	BaseSalary	Int
3	WorkedDays	Int

Public fields:

Srno.	Identifiers	Data type
1	Fullname	String

Public Properties:

SrNo	Identifers	Type	Data type
1	pID	RW	String: "Exxxx", x: digit
2	pSalary	RW	>100 and <5000
3	pDays	RW	>0 and <=31

Public Abstract methods:

Srno.	Identifiers	Return type	Description
1	Display ()	Void	Display detailed information
2	CalcSalary ()	Int	Calculate actual salary

Public Methods

Srno.	Identifiers	Return type	Description
1	Input ()	void	Input detailed information
2	ToString()	string	Override method ToString()

b. Create class '**Engineer**' derived from '**Employee**' :

i. Public Fields:

Srno.	Identifiers	Data type
1	Allowance	Int

ii. Methods:

Override methods in interface ICalc:

Actual Salary = (Base Salary * WorkedDays)/24 + Allowance

Override methods in base class:

- Input(): revoke Input() of base class and after that, input value for allowance
- Display() : print detailed information of an engineer

c. Create class '**EmployeeCatalog**', implements named Iterator **GetSenior**.

i. Fields:

Srno.	Identifiers	Data type
1	eList	List <Engineer>

ii. Public Property:

Srno.	Identifiers	Type	Description
1	Add()	W	Add a new engineer into list (eList)

iii. Public Methods:

Srno.	Identifiers	Return	Description
2	DisplayAll()	void	Return list of engineer by appropriate format
3	GetSenior ()	IEnumerable	Return list of engineers having actual salary >= 500

d. Create menu-based client class **Test** for testing class EmployeeCatalog.