

EXP NO:3

Date:22/07/2019

## Pay slip generation

### AIM:

To develop a java program to generate payslip for the employees with their gross and net salary

### REQUIREMENT:

Develop a java console application to create a package payroll to create the class employee with emp\_name, emp\_id, address, mail ID, mobile\_no. As data member

### ALGORITHM:

STEP-1 Declare a package payroll

STEP-2 Declare the class as employee.

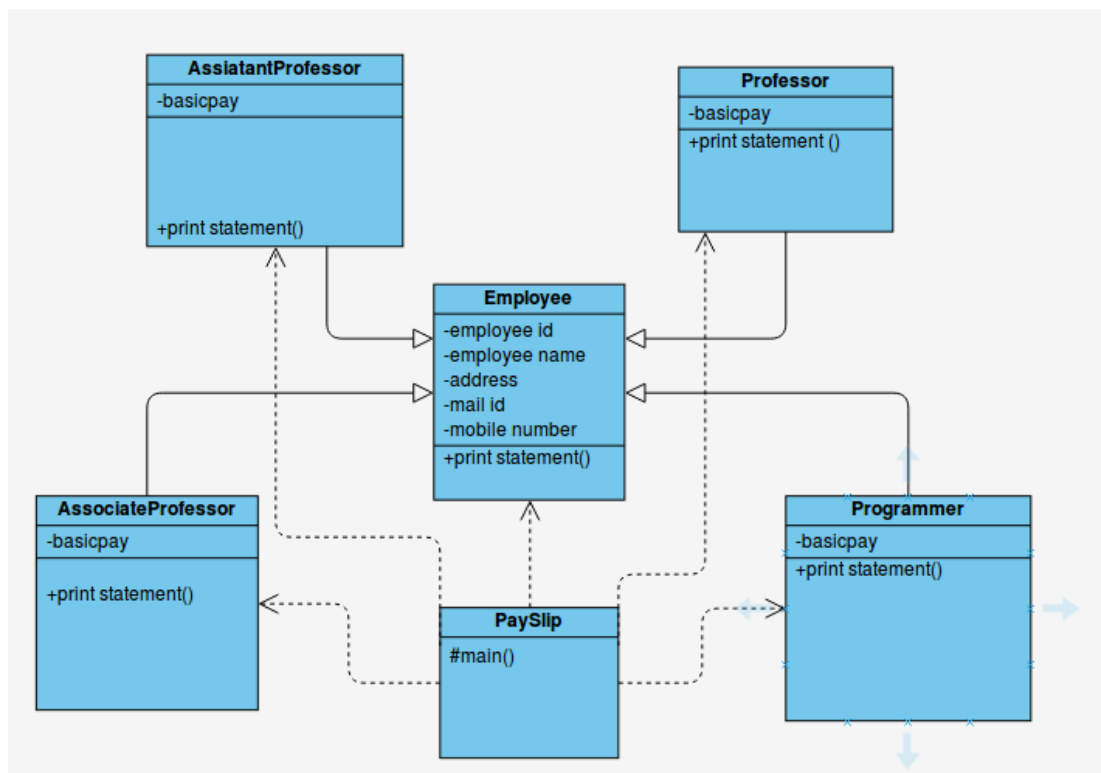
STEP-3 Declare a constant and add the data member

STEP-4 Inherit the classes from the superclass and add the data member of basic pay

STEP-5 Calculate the gross salary and net salary based on the inheritance,

STEP-6 Display the payslip bill

### CLASS DIAGRAM:



PROGRAM:

```
/*payslip generator
```

```
* suriyakumar
```

```
* 212217105057
```

```
* sksuri01@gmail.com*/
```

```
package payroll;
```

```
public class Employee {
    protected String emp_name;
    protected long emp_id;
    protected String address;
    protected String mail_id;
    protected long mobile_no;

    public Employee()
    {
        emp_name="noname";
        emp_id=100001;
        address="not given";
        mail_id="not given";
        mobile_no=800000001;
    }

    public Employee(String n,long id,String ad,String mail,long mo)
    {
        emp_name=n;
        emp_id=id;
        address=ad;
        mail_id=mail;
        mobile_no=mo;
    }

    public void printEmployee()
    {
        System.out.println("Name:"+emp_name);
        System.out.println("Account ID:"+emp_id);
        System.out.println("Address:"+address);
        System.out.println("EMail:"+mail_id);
        System.out.println("Mobile:"+mobile_no);
    }
}
```

```
}
```

```
/*payslip generator
```

```
* suriyakumar
```

```
* 212217105057
```

```
* sksuri01@gmail.com*/
```

```
package payroll;
```

```
public class AssistantProfessor extends Employee{
    private double basic_pay;
    public double da;
    public double hra;
```

```

    public double pf;
    public double staff_club;
    public double gross_salary;
    public double net_salary;

    public AssistantProfessor()
    {
        basic_pay=0;
    }

    public AssistantProfessor(String n,long id,String ad,String mail,long mo,double bp)
    {
        basic_pay=bp;
    }

    public void Employee()
    {
        super.printEmployee();
        System.out.println("enter the basic pay salary:"+basic_pay);
    }

    public void calculation()
    {
        double da,hra,pf,staff_club;
        da=0.97*basic_pay;
        hra=0.1*basic_pay;
        pf=1.2*basic_pay;
        staff_club=0.1*basic_pay;
        gross_salary=da+hra+pf+staff_club;
        net_salary=basic_pay-(pf+staff_club);
    }

    public void printAssistantProfessor(){

        System.out.println("employee basic salary"+basic_pay);
        System.out.println("employee gross salary"+ gross_salary);
        System.out.println("employee net salary"+net_salary);
    }

}

/*payslip generator
 * suriyakumar
 * 212217105057
 * sksuri01@gmail.com*/
package payroll;

public class AssociateProfessor extends Employee{
    private double basic_pay;
    public double da;
    public double hra;
    public double pf;

```

```

    public double staff_club;
    public double gross_salary;
    public double net_salary;

    public AssociateProfessor()
    {
        basic_pay=0;
    }

    public AssociateProfessor(String n,long id,String ad,String mail,long mo,double bp)
    {
        basic_pay=bp;
    }

    public void Employee()
    {
        super.printEmployee();
        System.out.println("enter the basic pay salary:"+basic_pay);
    }

    public void calculation()
    {
        double da,hra,pf,staff_club;
        da=0.97*basic_pay;
        hra=0.1*basic_pay;
        pf=1.2*basic_pay;
        staff_club=10*basic_pay;
        gross_salary=da+hra+pf+staff_club;
        net_salary=basic_pay-(pf+staff_club);
    }

    public void printAssociateProfessor(){

        System.out.println("employee basic salary"+basic_pay);
        System.out.println("employee gross salary"+ gross_salary);
        System.out.println("employee net salary"+net_salary);
    }

}

/*payslip generator
 * suriyakumar
 * 212217105057
 * sksuri01@gmail.com*/package payroll;

public class Professor extends Employee{
    private double basic_pay;
    public double da;
    public double hra;
    public double pf;
    public double staff_club;

```

```

    public double gross_salary;
    public double net_salary;

    public Professor()
    {
        basic_pay=0;
    }

    public Professor(String n,long id,String ad,String mail,long mo,double bp)
    {
        basic_pay=bp;
    }

    public void Employee()
    {
        super.printEmployee();
        System.out.println("enter the basic pay salary:"+basic_pay);
    }

    public void calculation()
    {
        double da,hra,pf,staff_club;
        da=0.97*basic_pay;
        hra=0.1*basic_pay;
        pf=1.2*basic_pay;
        staff_club=10*basic_pay;
        gross_salary=da+hra+pf+staff_club;
        net_salary=basic_pay-(pf+staff_club);
    }

    public void printProfessor(){

        System.out.println("employee basic salary"+basic_pay);
        System.out.println("employee gross salary"+ gross_salary);
        System.out.println("employee net salary"+net_salary);

    }

}

/*payslip generator
 * suriyakumar
 * 212217105057
 * sksuri01@gmail.com*/package payroll;

public class Programmer extends Employee{
    private double basic_pay;
    public double da;
    public double hra;
    public double pf;
    public double staff_club;

```

```

    public double gross_salary;
    public double net_salary;

    public Programmer()
    {
        basic_pay=0;
    }

    public Programmer(String n,long id,String ad,String mail,long mo,double bp)
    {
        basic_pay=bp;
    }

    public void Employee()
    {
        super.printEmployee();
        System.out.println("enter the basic pay salary:"+basic_pay);
    }

    public void calculation()
    {
        double da,hra,pf,staff_club;
        da=0.97*basic_pay;
        hra=0.1*basic_pay;
        pf=1.2*basic_pay;
        staff_club=10*basic_pay;
        gross_salary=da+hra+pf+staff_club;
        net_salary=basic_pay-(pf+staff_club);
    }

    public void printProgrammer(){

        System.out.println("employee basic salary"+basic_pay);
        System.out.println("employee gross salary"+ gross_salary);
        System.out.println("employee net salary"+net_salary);
    }

}

/*payslip generator
 * suriyakumar
 * 212217105057
 * sksuri01@gmail.com
 * */package payroll;

public class PaySlip {

    public static void main(String[] args) {
        Employee emp;
        Programmer prog;
        AssociateProfessor aspro;
        AssistantProfessor asspro;
    }
}

```

```

        Professor pro;
            emp= new
Employee("yogi",5000001,"chennai","account@gmail.com",800000000011);
            prog=new
Programmer("Raja",300001,"Chennai","account@gmail.com",900000000011,400000.0);

            aspro=new
AssociateProfessor("Kamal",600001,"Chennai","account@gmail.com",700000000011,500000.00);

            asspro=new
AssistantProfessor("Kala",800001,"Chennai","account@gmail.com",400000000011,400000.00);

            pro=new
Professor("suri",400001,"myd","account@gmail.com",800000000011,300000.00);
            emp.printEmployee();
            pro.printProfessor();
            aspro.printAssociateProfessor();
            asspro.printAssistantProfessor();
            prog.printProgrammer();
        }
    }

```

#### OUTPUT:

Name:employee  
 Account ID:300001  
 Address:Chennai  
 EMail:account@gmail.com  
 Mobile:90000000001  
 Name:programmer  
 Account ID:300001  
 Address:Chennai  
 EMail:account@gmail.com  
 Mobile:90000000001  
 Employee Basic salary :10000.0  
 Employee Gross salary :11910.0  
 Employee Net salary :10700.0

Name:asspro  
 Account ID:300001  
 Address:Chennai  
 EMail:account@gmail.com  
 Mobile:90000000001  
 Employee Basic salary :10000.0  
 Employee Gross salary :11910.0  
 Employee Net salary :10700.0  
 Name:assopro  
 Account ID:600001  
 Address:Chennai  
 EMail:account@gmail.com

Mobile:7000000001  
Employee Basic salary :20000.0  
Employee Gross salary :23820.0  
Employee Net salary :21400.0  
Name:professor  
Account ID:800001  
Address:Chennai  
EMail:account@gmail.com  
Mobile:4000000001  
Employee Basic salary :40000.0  
Employee Gross salary :47640.0  
Employee Net salary :42800.0

#### RESULT:

Thus the java application is generated successfully