

EX.NO:3	PAY SLIP GENERATION
DATE:12/07/19	

## 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.

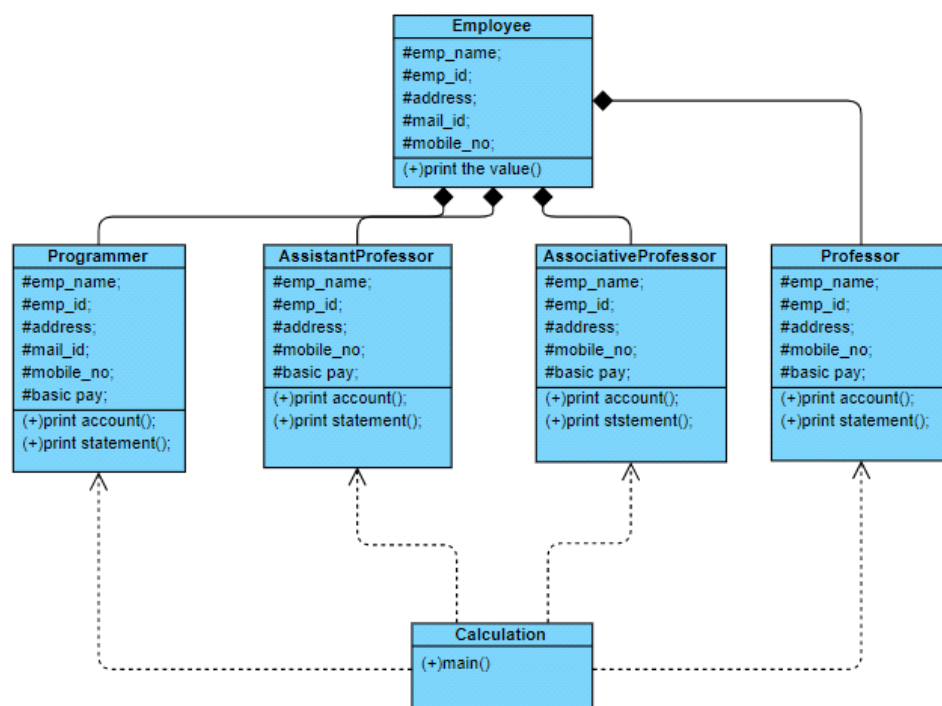
STEP-3 Declare a constant and add the data member

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:

```
package PAYROLL;

import java.util.Scanner;

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 read()

{

Scanner sc= new Scanner(System.in);

System.out.println("Enter the employee id:");//taking all the inputs from the user

emp_id=sc.nextInt();

System.out.println("Enter the employee name:");

emp_name=sc.next();

System.out.println("Enter the mail ID:");

mail_id=sc.next();

System.out.println("Enter the mobile no.:");

mobile_no=sc.nextInt();

System.out.println("Enter the employee address:");

address=sc.next();

}

public void printAccount()

{
```

```
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);  
}  
  
}
```

```
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,long bp)  
    {  
        super(n,id,ad,mail,mo);  
        basic_pay=bp;  
    }  
}
```

```
}

public void print()

{

System.out.println("basic amount credited:"+basic_pay);

}


public void calculation()

{

da=97.0/100*basic_pay;

hra=10.0/100*basic_pay;

pf=12.0/100*basic_pay;

staff_club=0.1/100*basic_pay;

gross_salary=da+hra+pf+staff_club;

net_salary=gross_salary-(pf+staff_club);

}

public void printStatement()

{

super.printAccount();

System.out.println("Employee Basic salary :"+basic_pay);

System.out.println("Employee Gross salary :"+gross_salary);

System.out.println("Employee Net salary :"+net_salary);

}

}

package PAYROLL;

import java.util.Scanner;
```

```
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,long bp)

{

super(n,id,ad,mail,mo);

basic_pay=bp;

}

public void read1()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the basic salary:");

emp_name=sc.next();

}

public void calculation()

{
```

```
da=(97.0/100.0)*basic_pay;

hra=(10.0/100.0)*basic_pay;

pf=(12.0/100.0)*basic_pay;

staff_club=(0.1/100.0)*basic_pay;

gross_salary=da+hra+pf+staff_club;

net_salary=gross_salary-(pf+staff_club);

}

public void printStatement()

{

super.printAccount();

System.out.println("Employee Basic salary :"+basic_pay);

System.out.println("Employee Gross salary :"+gross_salary);

System.out.println("Employee Net salary :"+net_salary);

}

}
```

```
package PAYROLL;
```

```
import java.util.Scanner;
```

```
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,long bp)

{

super(n,id,ad,mail,mo);

basic_pay=bp;

}

public void read1()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the basic salary:");

emp_name=sc.next();

}

public void calculation()

{

da=(97.0/100.0)*basic_pay;

hra=(10/100.0)*basic_pay;

pf=(12.0/100.0)*basic_pay;

staff_club=(0.1/100.0)*basic_pay;

gross_salary=da+hra+pf+staff_club;

net_salary=gross_salary-(pf+staff_club);

}
```



```
public void printStatement()
{
    super.printAccount();

    System.out.println("Employee Basic salary :"+basic_pay);
    System.out.println("Employee Gross salary :"+gross_salary);
    System.out.println("Employee Net salary :"+net_salary);

}
}
```

```
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,long bp)
    {
        super(n,id,ad,mail,mo);
    }
}
```

```
basic_pay=bp;
```

```
}
```

```
public void calculation()
```

```
{
```

```
da=(97.0/100.0)*basic_pay;
```

```
hra=(10.0/100.0)*basic_pay;
```

```
pf=(12.0/100.0)*basic_pay;
```

```
staff_club=(0.1/100.0)*basic_pay;
```

```
gross_salary=da+hra+pf+staff_club;
```

```
net_salary=gross_salary-(pf+staff_club);
```

```
}
```

```
public void printStatement()
```

```
{
```

```
super.printAccount();
```

```
System.out.println("Employee Basic salary :"+basic_pay);
```

```
System.out.println("Employee Gross salary :"+gross_salary);
```

```
System.out.println("Employee Net salary :"+net_salary);
```

```
}
```

```
}
```

```
package PAYROLL;
```

```
public class salarycredited {
```

```
public static void main(String[] args) {
```

```
Employee emp;
```

```
Programmer prog;
```

```
AssistantProfessor ass1;

AssociateProfessor ass2;

Professor pro;

emp=new Employee("employee",300001,"Chennai","account@gmail.com",90000000011);

prog=new
Programmer("programmer",300001,"Chennai","account@gmail.com",90000000011,10000);

ass1=new
AssistantProfessor("asspro",300001,"Chennai","account@gmail.com",90000000011,10000);

ass2=new
AssociateProfessor("assopro",600001,"Chennai","account@gmail.com",70000000011,20000);

pro=new Professor("professor",800001,"Chennai","account@gmail.com",40000000011,40000);

emp.printAccount();

prog.calculation();

ass1.calculation();

ass2.calculation();

pro.calculation();

prog.printStatement();

ass1.printStatement();

ass2.printStatement();

pro.printStatement();

}

}
```

## OUTPUT:

Name:employee

Account ID:300001

Address:Chennai

EMail:account@gmail.com

Mobile:9000000001

Name:programmer

Account ID:300001

Address:Chennai

EMail:account@gmail.com

Mobile:9000000001

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:9000000001

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 for pay slip is generated successfully.