

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.

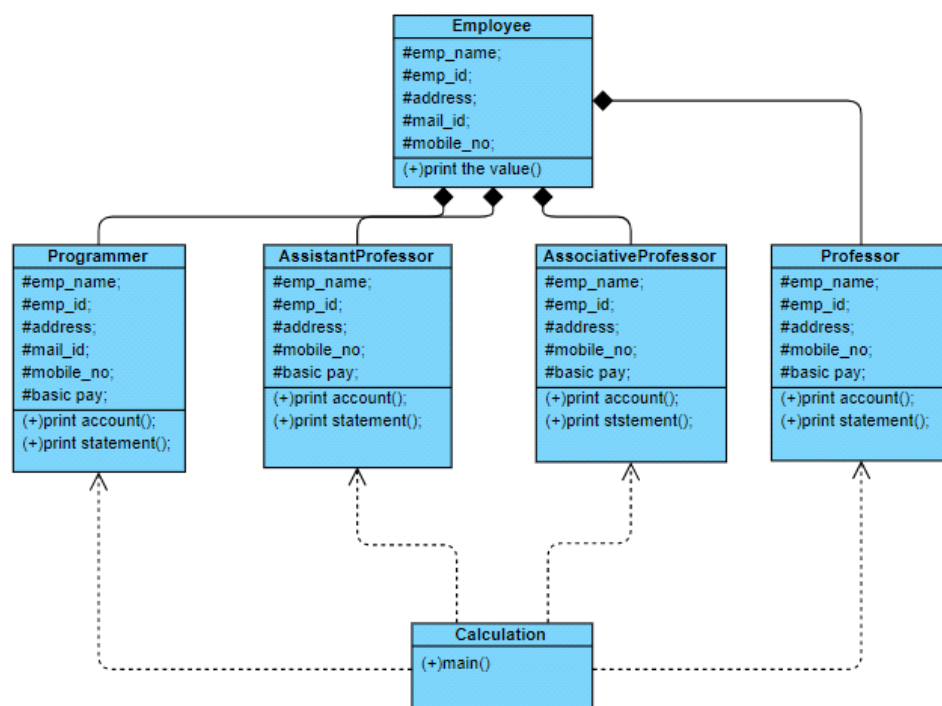
STEP-3 Declare a constant and add the data member

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:

```
/******  
* Program to represent bank account  
* Developed by  
* N.pavithra  
* npavithra1405@gmail.com  
*/  
  
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=80000001;

}

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",90000000001l);  
  
        prog=new  
        Programmer("programmer",300001,"Chennai","account@gmail.com",90000000001l,10000);  
  
        ass1=new  
        AssistantProfessor("asspro",300001,"Chennai","account@gmail.com",90000000001l,10000);  
  
        ass2=new  
        AssociateProfessor("assopro",600001,"Chennai","account@gmail.com",70000000001l,20000);  
  
        pro=new Professor("professor",800001,"Chennai","account@gmail.com",40000000001l,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.