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 pacakge 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.

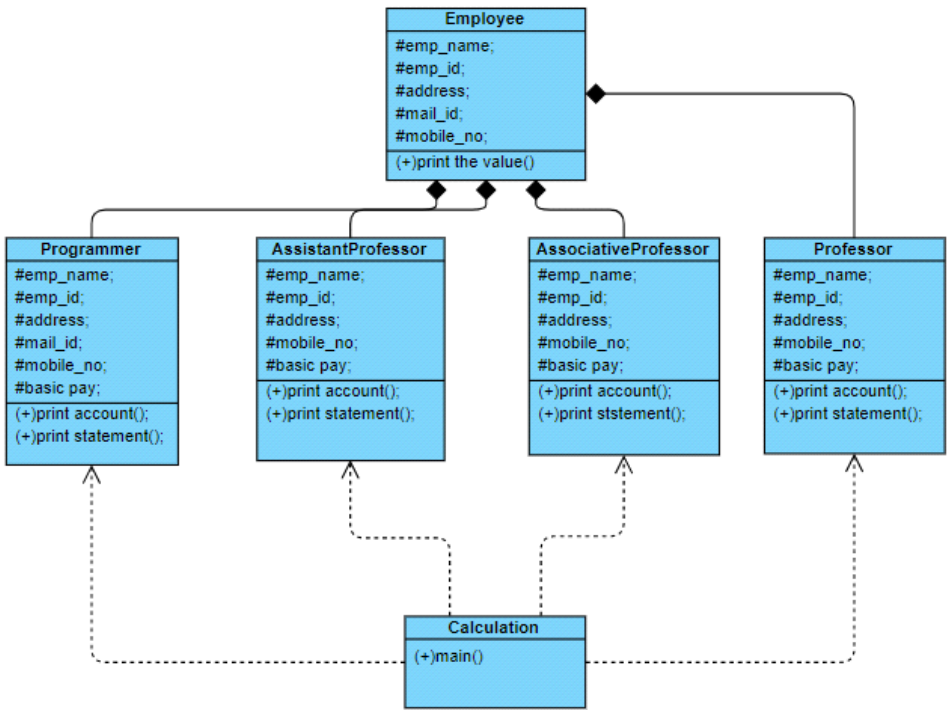
STEP-3 Declare a constant and add the data member

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

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

STEP-6 Display the payslip bill

CLASS DIAGRAM:



PROGRAM:

```
/*********
 * Program to represent BP of the program
 * Developed by
 * A.Sandhiya
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 */
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",9000000001l);

prog=new
Programmer("programmer",300001,"Chennai","account@gmail.com",9000000001l,10000);

ass1=new
AssistantProfessor("asspro",300001,"Chennai","account@gmail.com",9000000001l,10000);

ass2=new
AssociateProfessor("assopro",600001,"Chennai","account@gmail.com",70000000001l,20000);

pro=new Professor("professor",800001,"Chennai","account@gmail.com",4000000001l,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.