Exp No:	Java Application for Pay Slip Generation
Date:	

AIM:

To develop a java console application to find the gross and net salary using inheritage.

REQUIREMENT:

Develop a java application to create a package payroll and to create the class as employee with emp_name,emp_id,address,mail_id,mobile_no as data members.

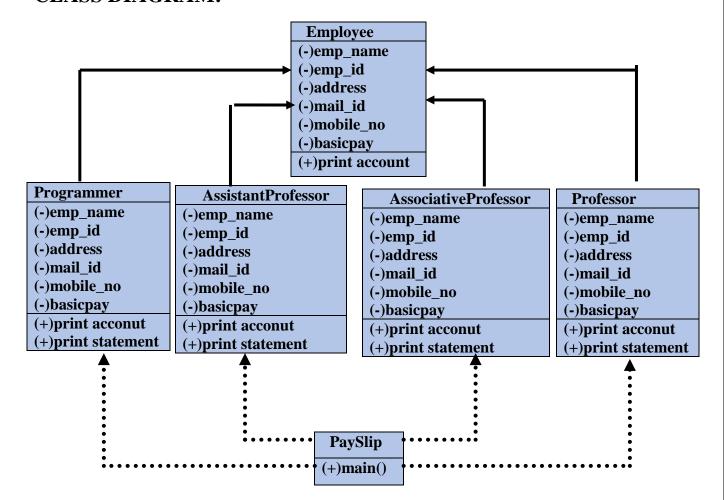
Inherit the classes as Programmer, Assistant Professor, Associative Professor, Professor, PaySlip. Add the basic pay as Data Member for these classes.

Create the class Calculation to print the DA, HRA, PF, Staff club fund, Gross salary and Net salary for the inheritage classes.

ALGORITHM:

- Step 1: Declare a package Payroll.
- **Step 2:** Declare the class as employee.
- **Step 3:** Declare a constructor and add the data members.
- **Step 4:** Inherit the classes from the super class and add the data members as basic pay.
- **Step 5:** Calculate the gross salary and net salary on the inheritage.
- **Step 6:** Display the result.

CLASS DIAGRAM:



PROGRAM:

Employee.java

```
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=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 printAccount()
            System.out.println("Name:"+emp_name);
            System.out.println("EMP ID:"+emp_id);
            System.out.println("Address:"+address);
            System.out.println("EMail:"+mail_id);
            System.out.println("Mobile:"+mobile_no);
      }
}
              AssistantProfessor.java
/**** @author Pavan Kalyan
* npkr.nvrr@outlook.com
package payroll;
public class AssistantProfessor extends Employee {
      private double basicpay;
      public AssistantProfessor()
            basicpay=0;
      public AssistantProfessor (String n, long id, String ad, String mail, long mo,
double BP)
```

```
{
            super (n,id,ad,mail,mo);
            basicpay=BP;
      public void printAccount()
            super.printAccount ();
            System.out.println("Basic pay:"+basicpay);
      public void printStatement()
      double total;
      double total1;
      double total2;
      double total3;
      double gross;
      double net;
      printAccount();
      total=basicpay*0.97;
      total1=basicpay*0.1;
      total2=basicpay*0.12;
      total3=basicpay*0.001;
      gross=total+total1+total2+total3;
      net=gross-total2-total3;
      System.out.printf("Duty Allowance (DA):%2f\n",total);
      System.out.printf("HRA:%2f\n",total1);
      System.out.printf("PF:%2f\n",total2);
      System.out.printf("Staff club fund:%2f\n",total3);
      System.out.printf("Staff salary is:%2f\n",gross);
      System.out.printf("net salary is:%2f\n",net);
      }
}
```

AssociativeProfessor.java

```
package payroll;
public class AssociativeProfessor extends Employee {
```

```
private double basicpay;
      public AssociativeProfessor()
            basicpay=0;
      public Associative Professor (String n, long id, String ad, String mail, long mo,
double BP)
            super (n,id,ad,mail,mo);
            basicpay=BP;
      public void printAccount()
            super.printAccount ();
            System.out.println("Basic pay:"+basicpay);
      public void printStatement()
      double total;
      double total1;
      double total2;
      double total3;
      double gross;
      double net;
      printAccount();
      total=basicpay*0.97;
      total1=basicpay*0.1;
      total2=basicpay*0.12;
      total3=basicpay*0.001;
      gross=total+total1+total2+total3;
      net=gross-total2-total3;
      System.out.printf("Duty Allowance (DA):%2f\n",total);
      System.out.printf("HRA:%2f\n",total1);
      System.out.printf("PF:%2f\n",total2);
      System.out.printf("Staff club fund:%2f\n",total3);
      System.out.printf("Staff salary is:%2f\n",gross);
      System.out.printf("net salary is:%2f\n",net);
```

```
}
```

Programmer.java

```
package payroll;
public class Programmer extends Employee{
      private double basicpay;
      public Programmer()
            basicpay=0;
      public Programmer (String n,long id,String ad, String mail, long mo,double BP)
            super (n,id,ad,mail,mo);
            basicpay=BP;
      public void printAccount()
            super.printAccount ();
            System.out.println("Basic pay:"+basicpay);
      public void printStatement()
      double total;
      double total1;
      double total2;
      double total3;
      double gross;
      double net;
      printAccount();
      total=basicpay*0.97;
      total1=basicpay*0.1;
      total2=basicpay*0.12;
      total3=basicpay*0.001;
      gross=total+total1+total2+total3;
```

```
net=gross-total2-total3;
      System.out.printf("Duty Allowance (DA):%2f\n",total);
      System.out.printf("HRA:%2f\n",total1);
      System.out.printf("PF:%2f\n",total2);
      System.out.printf("Staff club fund:%2f\n",total3);
      System.out.printf("Staff salary is:%2f\n",gross);
      System.out.printf("net salary is:%2f\n",net);
}
            Professor.java
package payroll;
public class Professor extends Employee {
private double basicpay;
      public Professor()
            basicpay=0;
      public Professor (String n, long id, String ad, String mail, long mo, double BP)
            super (n,id,ad,mail,mo);
            basicpay=BP;
      public void printAccount()
            super.printAccount ();
            System.out.println("Basic pay:"+basicpay);
      public void printStatement()
      double total;
      double total1;
      double total2;
      double total3;
      double gross;
      double net;
      printAccount();
```

```
total=basicpay*0.97;
      total1=basicpay*0.1;
      total2=basicpay*0.12;
      total3=basicpay*0.001;
      gross=total+total1+total2+total3;
      net=gross-total2-total3;
      System.out.printf("Duty Allowance (DA):%2f\n",total);
      System.out.printf("HRA:%2f\n",total1);
      System.out.printf("PF:%2f\n",total2);
      System.out.printf("Staff club fund:%2f\n",total3);
      System.out.printf("Staff salary is:%2f\n",gross);
      System.out.printf("net salary is:%2f\n",net);
      }
}
                     PaySlip.java
package payroll;
public class payslip {
      public static void main (String[]args) {
            Programmer pro;
            AssistantProfessor AssPro;
            AssociativeProfessor AsoPro;
            Professor Prof;
            pro=new
Programmer("Pavan",300001,"chennai","pavan@gmail.com",9000001,600000);
            AssPro=new AssistantProfessor
("Kalyan",600001,"chennai","kalyan@gmail.com",70000001,50000);
            AsoPro=new
AssociativeProfessor("Sumanth",8000001,"nellore","sumanth@gmail.com",700001,7
0000);
            Prof=new Professor
("Reddy",9000001,"kadapa","reddy@gmail.com",2000001,900000);
            pro.printAccount();
            AssPro.printStatement();
            AsoPro.printStatement();
            Prof.printStatement();
      }
}
```

OUTPUT:

Name:Pavan

EMP ID:300001

Address:chennai

EMail:pavan@gmail.com

Mobile:9000001

Basic pay:600000.0

Name:Kalyan

EMP ID:600001

Address:chennai

EMail:kalyan@gmail.com

Mobile:70000001

Basic pay:50000.0

Duty Allowance (DA):48500.000000

HRA:5000.000000

PF:6000.000000

Staff club fund:50.000000

Staff salary is:59550.000000

net salary is:53500.000000

Name:Sumanth

EMP ID:8000001

Address:nellore

EMail:sumanth@gmail.com

Mobile:700001

Basic pay:70000.0

Duty Allowance (DA):67900.000000

HRA:7000.000000

PF:8400.000000

Staff club fund:70.000000

Staff salary is:83370.000000

net salary is:74900.000000

Name:Reddy

EMP ID:9000001

Address:kadapa

EMail:reddy@gmail.com

Mobile:2000001

Basic pay:900000.0

Duty Allowance (DA):873000.000000

HRA:90000.000000

PF:108000.000000

Staff club fund:900.000000

Staff salary is:1071900.000000

net salary is:963000.000000

RESULT:

Thus the java application for generation of pay slip is developed by using inheritage classes.