EX.NO:3	PAYSLIP GENERATION
22-07-19	

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

REQUIREMENT:

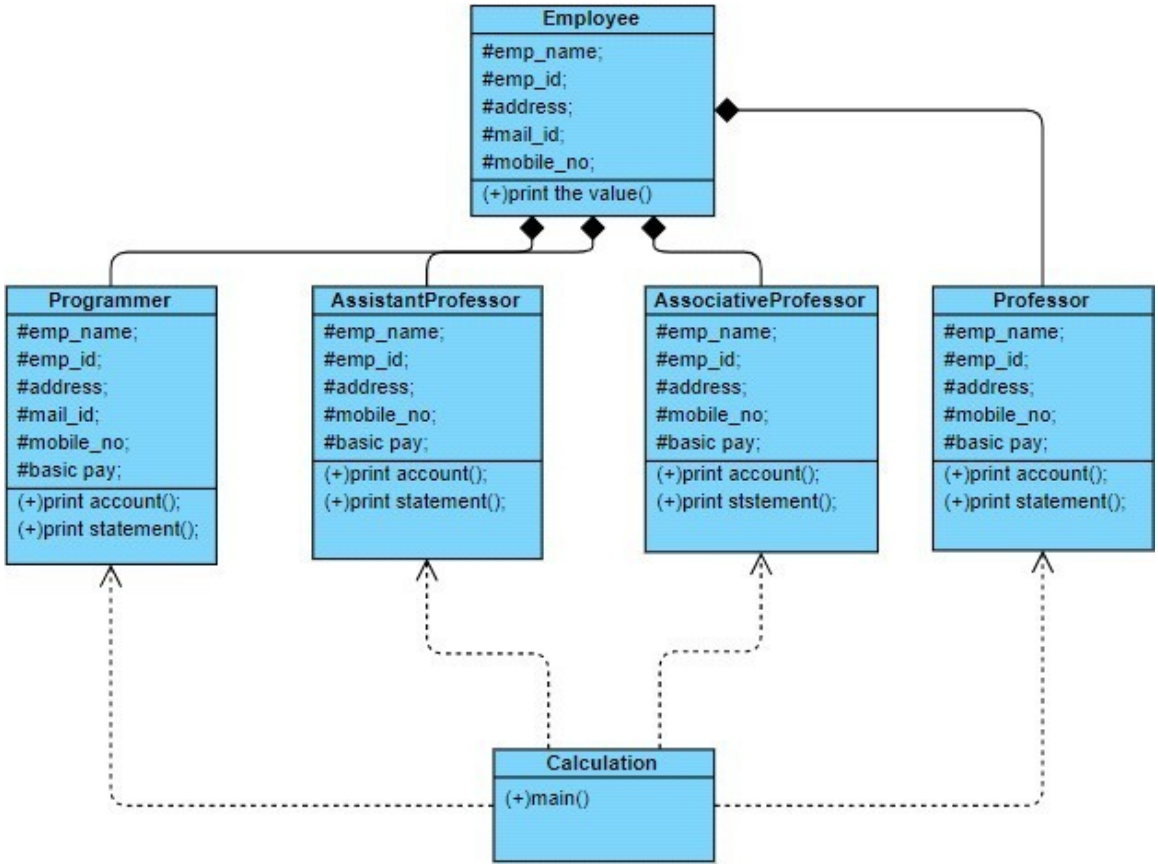
Develop a java application to create a package payroll and to create the class as employee with emp_name,emp_id,address,mail_id,mobile_no as data members. Inherittheclassesasprogrammer,assistantprofessor,associativeprofessor,professor.add the basic pay as data member for theseclasses.

create the class calculation to print the DA,HRA,PF,Staff club fund,gross salary and net salary for the inheritage classes.

ALGORITHM:

1. Declare a package payroll.
2. Declare the class asemployee.
3. Declare a constructor and add the datamembers.
4. Inherit the classes from the super class and add the data members as basicpay.
5. Calculate the gross salary and net salary on the inheritage.
6. Display the result.

CLASSDIAGRAM:



PROGRAM:

```
/**
* program to represent employee details
* created by rasapalle nehareddy
* 212217105049
*/

package payroll;

public class Employee { protected
        String emp_name; protected
        double emp_id; protected String
        address; protected String
        mail_id; protected
        doublemobile_no;

        public Employee ()
        {
        emp_name="name";
        emp_id=100001;
        address="not given";
        mail_id="not given";
        mobile_no=80000001;
        }

        public Employee(String n, String ad,double id,double mo, String mail)
        {
        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);



        }
}
package payroll;

public class PaySlips {
        public static void main(String[] args)
        {
                Employee emp;
                Programmerpro;
                AssistantProfessorAssistProf;
                AssociateProfessor AssocProf;
                Professor prof;
```

```
emp=new Employee("a","chennai",100001,974643,"a@gmail.com");
pro=new Programmer("f","chennai",100002,547955,"b@gmail.com",80000);
AssistProf=newAssistantProfessor("c","chenani",100003,879457,"c@gmail.com",50000);
AssocProf=new AssociateProfessor("d","chennai",100004,798464,"d@gmail.com",60000);
prof=new Professor("e","chennai",10005,879544,"e@gmail.com",70000);
emp.printAccount();
prof.printStatement();
pro.printStatement();
AssistProf.printStatement();
AssocProf.printStatement();

        }

 }
 package payroll;

 public class Professor extends Employee { private
        double basicpay;
        public Professor()
        {
                basicpay=0;

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

        }
        public void printEmployee()
        {
                super.printAccount(); System.out.println("basicpay:"+basicpay);}
        public void printStatement()
        {
                 double  DA; double

                 HRA; double  PF;

                 doublestafffund;

                     double gross;

                     double net;

                     printAccount();


                     DA=basicpay*0.97; HRA=basicpay*0.10;

                     PF=basicpay*0.12;

                     stafffund=basicpay*0.001;

                     gross=DA+HRA+PF+stafffund;

                     net=gross-PF-stafffund;

                     System.out.printf("da:%2f\n",+DA);
```

```
                System.out.printf("hra:%2f\n",+HRA); System.out.printf("PF:%2f\n",
                +PF); System.out.printf("Staff club fund:%2f\n",+stafffund);
                System.out.printf("salary :%2f\n",+gross); System.out.printf("net
                salary :%2f\n",+net);

        }

}

package payroll;

public class Programmer extends Employee { private
        double basicpay;


            public Programmer()
            {
                        basicpay=0;
            }
            public Programmer (String n, String ad,double id,double mo, String mail, double bp)
            {
                        super (n,ad,id,mo,mail);
                        basicpay=bp;
            }
            public void printAccount()
            {           super.printAccount ();
                        System.out.println("Basicpay:"+basicpay);
            }
            public void printStatement()
            {
            double DA; double
            HRA; double PF;
```

```
        double stafffund;
        double gross; double
        net; printAccount();

        DA=basicpay*0.97;
        HRA=basicpay*0.1;
        PF=basicpay*0.12;
        stafffund=basicpay*0.0010;
        gross=DA+HRA+PF+stafffund;
        net=gross-PF-stafffund;
        System.out.printf("Duty Allowance (DA):%2f\n",DA);
        System.out.printf("HRA:%2f\n",HRA); System.out.printf("PF:
        %2f\n",PF); System.out.printf("Staff club fund:%2f\n",stafffund);
        System.out.printf("salary :%2f\n",gross); System.out.printf("net
        salary :%2f\n",net);
        }
}
package payroll;

public class AssociateProfessor extends Employee { private double
    basicpay;
      public AssociateProfessor()
        {
            basicpay=0;
        }
        public AssociateProfessor (String n, String ad,double id,double mo, String mail,
double bp)
        {
            super (n,ad,id,mo,mail);
              basicpay=bp;
        }
        public void printEmployee()
```

```
{                   super.printAccount ();
                    System.out.println("Basicpay:"+basicpay);
}
public void printStatement()
{
double DA; double
HRA; double PF;
double stafffund;
double gross; double
net; printAccount();
DA=basicpay*0.97;
HRA=basicpay*0.10;
PF=basicpay*0.12;
stafffund=basicpay*0.001;
gross=DA+HRA+PF+stafffund;
```

```
            net=gross-PF-stafffund;

            System.out.printf("da:%2f\n",+DA); System.out.printf("hra:%2f\n",
            +HRA); System.out.printf("PF:%2f\n",+PF); System.out.printf("Staff
            club fund:%2f\n",+stafffund); System.out.printf("salary :%2f\n",
            +gross); System.out.printf("net salary :%2f\n",+net);
        }
}
package payroll;

public class AssistantProfessor extends Employee { private double
        basicpay;

            public AssistantProfessor()
            {
                basicpay=0;
            }
            public AssistantProfessor (String n, String ad,double id,double mo, String mail,
double bp)
            {
                super (n,ad,id,mo,mail);
                basicpay=bp;
            }
            public void printEmployee()
            {           super.printAccount ();
                        System.out.println("Basicpay:"+basicpay);
            }
            public void printStatement()
            {
            double DA; double
            HRA; double PF;
                double stafffund;
```

```
                double gross; double

                net; printAccount();

                DA=basicpay*0.97;

                HRA=basicpay*0.1;

                PF=basicpay*0.12;

                stafffund=basicpay*0.0010;

                gross=DA+HRA+PF+stafffund;

                net=gross-PF-stafffund;

                System.out.printf("da:%2f\n",+DA);

                System.out.printf("hra:%2f\n",+HRA); System.out.printf("PF:%2f\n",

                +PF); System.out.printf("Staff club fund:%2f\n",+stafffund);

                System.out.printf("salary:%2f\n",+gross); System.out.printf("net

                salary :%2f\n",+net);


}
}
```

output:

Name:a
EMP ID:100001.0
Address:chennaiEM
ail:a@gmail.comMo
bile:974643.0
Name:e
EMPID:10005.0
Address:chennaiEM
ail:e@gmail.comMo
bile:879544.0
da:67900.000000
hra:7000.000000
PF:8400.000000
Staff club fund:70.000000 salary :
83370.000000
net salary :74900.000000 Name:f
EMP ID:100002.0
Address:chennaiEM
ail:b@gmail.comMo
bile:547955.0 Basic
pay:80000.0
Duty Allowance (DA):77600.000000
HRA:8000.000000
PF:9600.000000
Staff club fund:80.000000 salary :
95280.000000

net salary :85600.000000 Name:c
EMP ID:100003.0
Address:chenaniEM
ail:c@gmail.comMo
bile:879457.0
da:48500.000000
hra:5000.000000
PF:6000.000000
Staff club fund:50.000000
salary:59550.000000
net salary :53500.000000 Name:d
EMP ID:100004.0
Address:chennaiEM
ail:d@gmail.comMo
bile:798464.0
da:58200.000000
hra:6000.000000
PF:7200.000000
Staff club fund:60.000000 salary :
71460.000000
net salary :64200.000000

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