EXP-03	PAYSLIP GENERATION
23-07-19	

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.
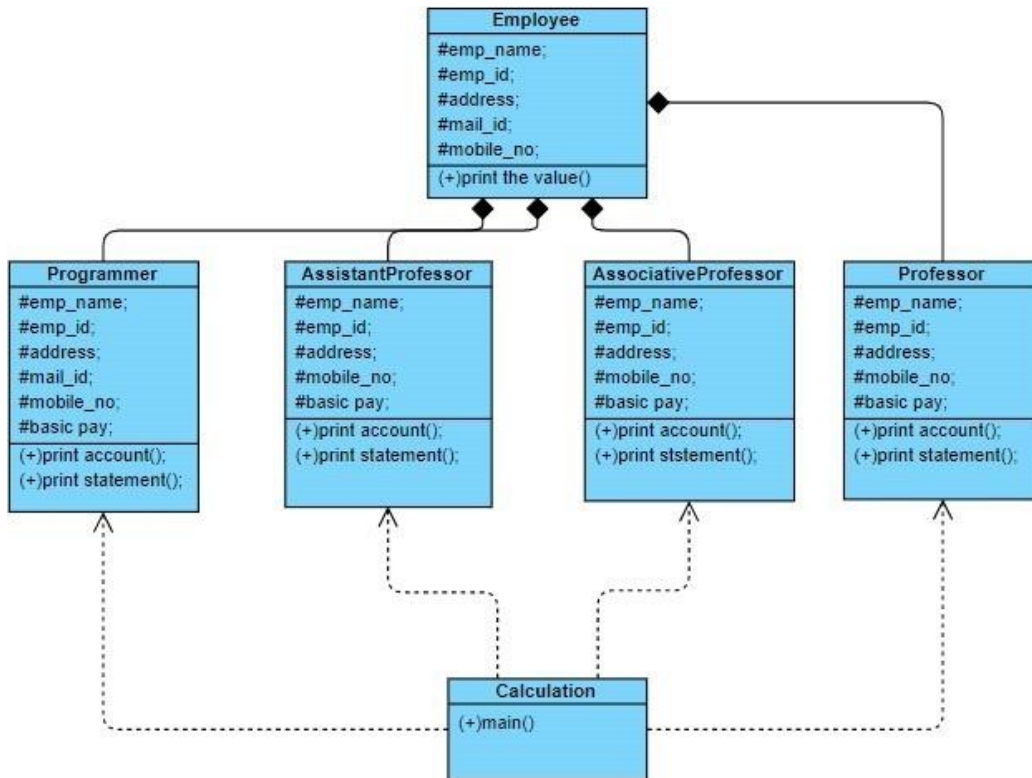
Inherit the classes as programmer,assistantprofessor,associativeprofessor,professor.add the basic pay as data member for these classes.

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

ALGORITHM:

1. Declare a packagepayroll.

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 theinheritage.

6. Display theresult.

CLASS DIAGRAM:

PROGRAM:

/**

*programto representemployeedetails

@author A.manikanta

amanikanta69@gmail.com

*/

packagePayroll;

public

classEmployee{protectedSt ringemp_name;protectedlong emp_id;protectedStringaddr
ess;protectedStringmail_i d;
protectedlongmobile_no;

publicEmployee()

{

emp_name="name";emp_id=1 23123;address="not given";mail_id="not
given";mobile_no=91637543

```java
;
}

publicEmployee(Stringn,longid,Stringadd,Stringmail,longnum)

{

emp_name=n;emp

_id=id;address

=add;mail_id= mail;mobile_no
=num;
}

public voidprintaccount()

{
```

/**
System.out.println("Nameoftheemployee:"+emp_name);System.out.
println("EmployeeID:"+emp_id);System.out.println("Address:"+ad
dress);System.out.println("MailIDoftheemployee:"+mail_id);Syste
m.out.println("Mobilenumberoftheemployee:"+mobile_no);
}
program to represent BP of programmer

@author A.manikanta

amanikanta69@gmail.com

*/

packagePayroll;

public classProgrammerextendsEmployee{ private doublebasicpay;

```java
publicProgrammer()

{

basicpay=0;

}

publicProgrammer(Stringn,longid,Stringadd,Stringmail,longnum,doubleBP)

{

super(n,id,add,mail,num); basicpay=BP;
}

public voidprintAccount()

{
super.printaccount();System.out.println("Basi cpay:"+basicpay);
System.out.println("---------------------------------------------------------
-
-----------------------------------------------");

}

public voidprintStatement()

{

doubletotal;double

total1;doubletotal2

;doubletotal3;
doublegross;doublen et;printAccount();tot al=basicpay*0.97;tot al1=basicpay*0.1;
total2=basicpay*0.12;total3=ba sicpay*0.001;gross=total+total1
+total2+total3;net=gross-total2- total3;
System.out.printf("dutyallowance(DA):%.2f\ n",total);System.out.printf("HRA:%.2f\
n",total1);System.out.printf("PF:%2f\ n",total2);System.out.printf("staffclubfund:%.2f\
n",total3);System.out.printf("grosssalaryis:%.2f\
n",gross);System.out.printf("netsalaryis:%.2f\ n",net);
}

}


/**
```

```
program to represent BP of Assistant professor

@author A.manikanta

amanikanta69@gmail.com

*/

packagePayroll;


public classAssistantProfessorextendsEmployee{ private doublebasicpay;
publicAssistantProfessor()

{
basicpay=0;

}

publicAssistantProfessor(Stringn,longid,Stringadd,Stringmail,longnum,doubleBP)

{

super(n,id,add,mail,num); basicpay=BP;
}

public voidprintAccount()

{
super.printaccount();System.out.println("Basi cpay:"+basicpay);
}

public voidprintStatement()

{

doubletotal;double total1;doubletotal2; doubletotal3;double gross;doublenet;prin
tAccount();total=bas icpay*0.97;total1=ba sicpay*0.1;
total2=basicpay*0.12;total3=ba sicpay*0.001;gross=total+total1
+total2+total3;net=gross-total2- total3;
System.out.printf("dutyallowance(DA):%.2f\ n",total);System.out.printf("HRA:%.2f\
n",total1);System.out.printf("PF:%2f\n",total2);
System.out.printf("staffclubfund:%.2f\ n",total3);System.out.printf("grosssalaryis:%.2f\
n",gross);System.out.printf("netsalaryis:%.2f\ n",net);
System.out.println("-------------------------------------------------------
-
----------------------------------------------");

}
```

```java
}

/**
program to represent BP of Associative professor

@author A.manikanta

amanikanta69@gmail.com

*/

package Payroll;

public class AssociativeProfessor extends Employee{ private double basicpay;
public AssociativeProfessor()

{

basicpay=0;

}

public AssociativeProfessor(String n,long id,String add,String mail,long num,double BP)

{

super(n,id,add,mail,num); basicpay=BP;
}

public void printAccount()

{
super.printaccount();System.out.println("Basi cpay:"+basicpay);
}

public void printStatement()

{

double total;double total1;double total2; double total3;double gross;double net;prin
tAccount();total=bas icpay*0.97;total1=ba sicpay*0.1;
total2=basicpay*0.12;total3=ba sicpay*0.001;gross=total+total1
+total2+total3;net=gross-total2- total3;
System.out.printf("dutyallowance(DA):%.2f\ n",total);System.out.printf("HRA:%.2f\
n",total1);System.out.printf("PF:%2f\ n",total2);System.out.printf("staffclubfund:%.2f\
n",total3);System.out.printf("grosssalaryis:%.2f\
n",gross);System.out.printf("netsalaryis:%.2f\ n",net);
```

```java
        System.out.println("----------------------------------------------------------

        ------------------------------------------------");

    }

}
```

```java
/**

program to representBPofprofessor
@authorA.manikanta

amanikanta69@gmail.com

*/

packagePayroll;

public classProfessorextendsEmployee{ private doublebasicpay;
publicProfessor()

{

basicpay=0;

}

publicProfessor(Stringn,longid,Stringadd,Stringmail,longnum,doubleBP)

{

super(n,id,add,mail,num); basicpay=BP;
}

public voidprintAccount()

{

super.printaccount();System.out.println("Basi cpay:"+basicpay);
}

public voidprintStatement()

{
```

```
doubletotal;doub letotal1;doubletot al2;doubletotal3;d oublegross;doublen et;printAccount();
total=basicpay*0.97;total1=basic pay*0.1;total2=basicpay*0.12;tot
al3=basicpay*0.001;gross=total+ total1+total2+total3;net=gross- total2-total3;
System.out.printf("dutyallowance(DA):%.2f\ n",total);System.out.printf("HRA:%.2f\
n",total1);System.out.printf("PF:%2f\ n",total2);System.out.printf("staffclubfund:%.2f\
n",total3);System.out.printf("grosssalaryis:%.2f\
n",gross);System.out.printf("netsalaryis:%.2f\ n",net);
System.out.println("--------------------------------------------------------
-
-----------------------------------------------");

}

}
```

CALCULATION:

/*Program to represent gross and net salary

author@A.manikanta

amanikanta69@gmail.com

*/

packagePayroll;

public classCalculation{

public static voidmain(String[]args)

```
{Programmerpro; AssistantProfessorAsspro;
AssociativeProfessorAsopro; Professorprof;
pro=newProgrammer("sunitha",17001300,"Chennai","account@g
mail.com",900000000l,60000);
```

```
Asspro=newAssistantProfessor("mahesh",17001301,"Chennai","accoun
t@gmail.com",700000000l,70000)
;
```

```
Asopro=newAssociativeProfessor("mahalakshmi",17001302,"Chennai",
"account@gmail.com",40000000001l
,80000);
```

prof=newProfessor("nithin",17001303,"chennai","account@g mail.com",2000000001,100000);

pro.printAccount();Assp ro.printStatement();Asopr o.printStatement();prof. printStatement();
}

}

OUTPUT:

Name of the employee:sunitha

Employee ID:17001300

Address:Chennai

MailIDoftheemployee:account@gmail.comMobilen

umberoftheemployee:900000000Basic

pay:60000.0

Name of the employee:mahesh

ID:17001301 Address:Chennai

MailIDoftheemployee:account@gmail.comMobilen

umberoftheemployee:7000000001Basic

pay:70000.0

duty

allowance(DA):67900.00HRA:700

0.00

PF:8400.000000

staff club

fund:70.00gross salary

is:83370.00net salary

is:74900.00

Name of the employee:mahalakshmi

Employee ID:17001302

Address:Chennai

MailIDoftheemployee:account@gmail.comMobilen

umberoftheemployee:4000000001Basic

pay:80000.0

duty

allowance(DA):77600.00HRA:800

0.00

PF:9600.000000

staff club

fund:80.00gross salary

is:95280.00net salary

is:85600.00

Nameof the employee:nithin

Employee ID:17001303 Address:chennai

MailIDoftheemployee:account@gmail.comMobilen

umberoftheemployee:2000000001Basic

pay:100000.0

duty allowance(DA):97000.00

HRA:10000.00

PF:12000.000000

staffclub fund:100.00

gross salary is:119100.00

net salary is:107000.00

RESULT:

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