DATE	PAY SLIP
EXP NO:	

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.
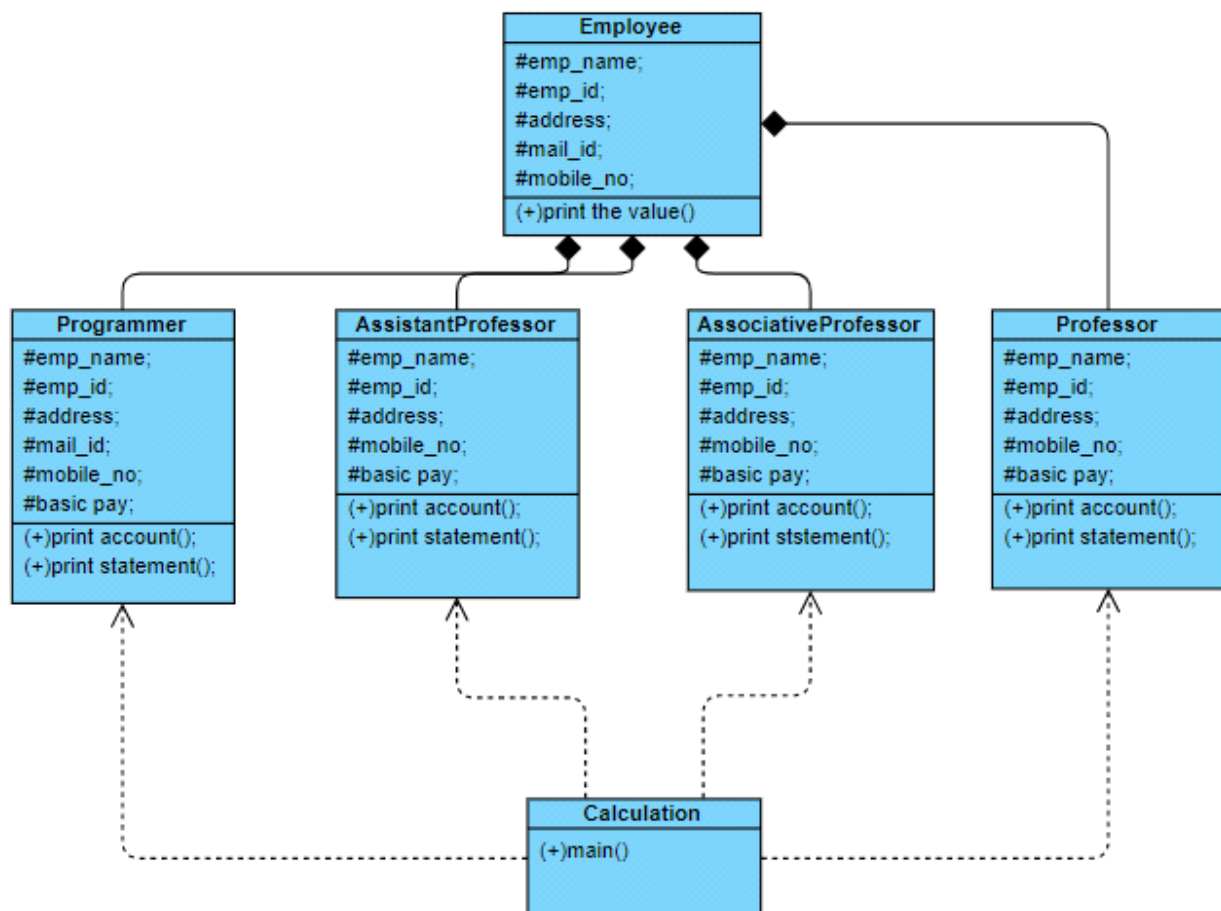Inherit the classes as programmer,assistantprofessor,associativeprofessor,professor.add the basic pay as data member for these classes.
create the class calculation to print the DA,HRA,PF,Staff club fund,gross salary and net salary for the inheritage classes.

ALGORITHM:

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

CLASS DIAGRAM:

PROGRAME:

AssistantProfessor.java

/**created by m.uday kanth
 * eee-b, mail id:-udaykanth67@gmail.com

```java
 *
 *
 */
package Payroll;
public class AssistantProfessor extends Employee {
    private double basicpay;
public AssistantProfessor()
{
   basicpay=0;
}
public AssistantProfessor(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("Basic pay:"+basicpay);
String divider="-----------------------------------------------";
System.out.printf("\n"+divider+"\n");
}
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;
String divider="-----------------------------------------------";
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("gross salary is:%.2f\n",gross);
System.out.printf("net salary is:%.2f\n",net);
System.out.printf("\n"+divider+"\n");
System.out.printf("\n");

}
}
```

AssociativeProfessor.java
```java
/**created by m.uday kanth
 * eee-b, mail id:-udaykanth67@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("Basic pay:"+basicpay);
String divider="-------------------------------------------------";
System.out.printf("\n"+divider+"\n");
}
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("gross salary is:%.2f\n",gross);
System.out.printf("net salary is:%.2f\n",net);
String divider="-------------------------------------------------";
System.out.printf("\n"+divider+"\n");
System.out.printf("\n");
}
}
                                        Calculation.java
/**created by m.uday kanth
 * eee-b, mail id:-udaykanth67@gmail.com
```

```java
 *
 *
 */
package Payroll;

public class Calculation {

public static void main(String[] args) {
   Programmer pro;
AssistantProfessor Asspro;
AssociativeProfessor Asopro;
Professor prof;
pro=new Programmer("uday",250076,"Chennai","account@gmail.com",667457845,786547);

Asspro=new
AssistantProfessor("hari",698700,"Chennai","account@gmail.com",798570011,89324);

Asopro=new
AssociativeProfessor("suresh",960654,"Chennai","account@gmail.com",958574785,88769);

prof=new Professor("rajesh",900786,"chennai","account@gmail.com",895689561,675675);
pro.printStatement();
Asspro.printStatement();
Asopro.printStatement();
prof.printStatement();
}

}
```

                                Employee.java
```java
/**created by m.uday kanth
 * eee-b, mail id:-udaykanth67@gmail.com
 *
 *
 */
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="name";
emp_id=123123;
address="not given";
mail_id="not given";
mobile_no=91637543;
}
```

```java
public Employee(String n,long id,String add,String mail,long num)
{
emp_name=n;
emp_id=id;
address=add;
mail_id=mail;
mobile_no=num;
}
public void printaccount()
{
String divider="--------------------------------------------------";
System.out.println("Name of the employee:"+emp_name);
System.out.println("Employee ID:"+emp_id);
System.out.println("Address:"+address);
System.out.println("Mail ID of the employee:"+mail_id);
System.out.println("Mobile number of the employee:"+mobile_no);
System.out.printf("\n"+divider+"\n");



}


}
```
                                    Professor.java
```java
/**created by m.uday kanth
 * eee-b, mail id:-udaykanth67@gmail.com
 *
 *
 */
package Payroll;

public class Professor extends Employee {
    private double basicpay;
public Professor()
{
   basicpay=0;
}
public Professor(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("Basic pay:"+basicpay);
String divider="--------------------------------------------------";
System.out.printf("\n"+divider+"\n");
}
public void printStatement()
{
double total;
```

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

}
}
```

<center>Programmer.java</center>

```java
/**created by m.uday kanth
 * eee-b, mail id:-udaykanth67@gmail.com
 *
 *
 */
package Payroll;

public class Programmer extends Employee {
    private double basicpay;
public Programmer()
{
   basicpay=0;
}
public Programmer(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("Basic pay:"+basicpay);
String divider="-------------------------------------------------";
System.out.printf("\n"+divider+"\n");
}
public void printStatement()
{
double total;
double total1;
```

```java
        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("gross salary is:%.2f\n",gross);
        System.out.printf("net salary is:%.2f\n",net);
        String divider="-------------------------------------------------";
        System.out.printf("\n"+divider+"\n");
        System.out.printf("\n");

    }
}
```

OUTPUT:

Name of the employee:uday
Employee ID:250076
Address:Chennai
Mail ID of the employee:account@gmail.com
Mobile number of the employee:667457845

Basic pay:786547.0

----
duty allowance(DA):762950.59
HRA:78654.70
PF:94385.640000
staff club fund:786.55
gross salary is:936777.48
net salary is:841605.29

Name of the employee:hari
Employee ID:698700
Address:Chennai
Mail ID of the employee:account@gmail.com
Mobile number of the employee:79857001

Basic pay:89324.0

----
duty allowance(DA):86644.28
HRA:8932.40
PF:10718.880000
staff club fund:89.32
gross salary is:106384.88
net salary is:95576.68

Name of the employee:suresh
Employee ID:960654
Address:Chennai
Mail ID of the employee:account@gmail.com
Mobile number of the employee:958574785

Basic pay:88769.0

----
duty allowance(DA):86105.93
HRA:8876.90
PF:10652.280000
staff club fund:88.77
gross salary is:105723.88
net salary is:94982.83

Name of the employee:rajesh
Employee ID:900786
Address:chennai
Mail ID of the employee:account@gmail.com
Mobile number of the employee:895689561

Basic pay:675675.0

----
duty allowance(DA):655404.75
HRA:67567.50
PF:81081.000000
staff club fund:675.68
gross salary is:804728.93
net salary is:722972.25

RESULT:
Hence, a pay slip is generated by creating package payroll in java application