PAY SLIP GENERATION

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:
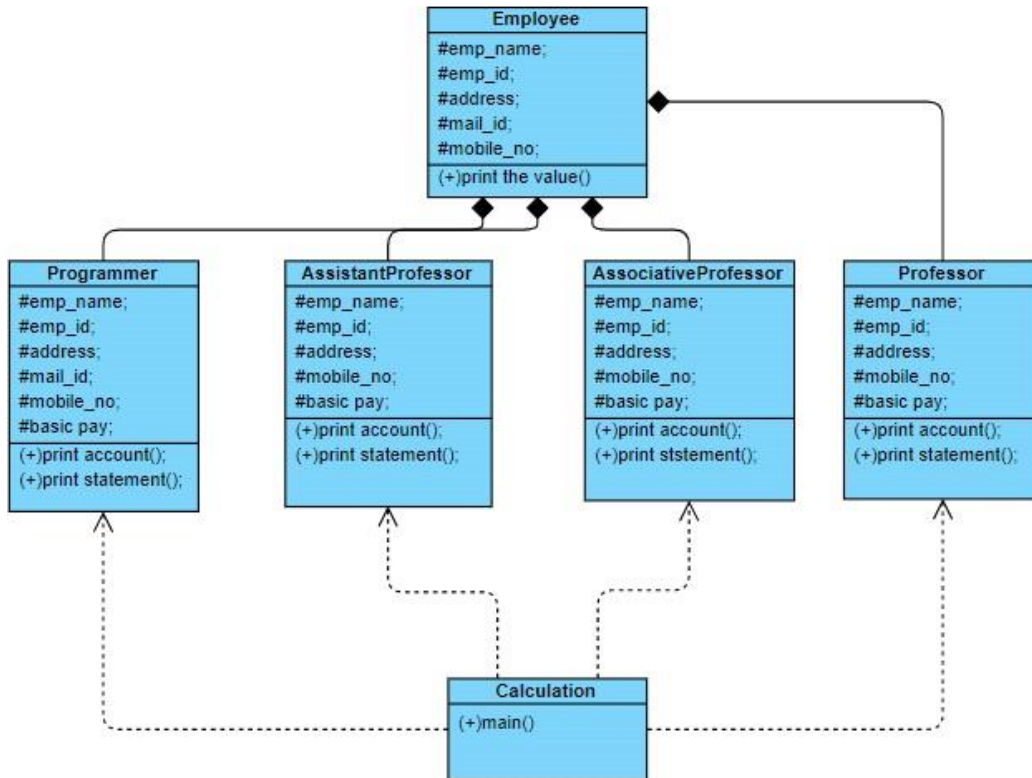
/** PROGRAM:

* program to represent employee details

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*/

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()

```java
{

emp_name="name"; emp_id=123123; address="not given"; mail_id="not given";
mobile_no=91637543;
}

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()

{

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);
}

}




/**
*program to represent BP of programmer

*@author  harsha Vardhan reddy



**/

package  Payroll;
```

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

}

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;
```

```java
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);
}

}
```

/**

program to represent BP of Assistant professor

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*/

```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;
```

```java
}

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

System.out.println("---------------------------------------------------------

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

}

}


/**

program to represent BP of Associative professor

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*/

package  Payroll;
```

```java
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);
}

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);
System.out.println("-----------------------------------------------------------
```

---");

}

}

/**

*program to represent BP of professor

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*/

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;

```java
}

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

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

}

}
```

CALCULATION:

/* Program to represent gross and net salary

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*reddyharsha298@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("raja",30001,"Chennai","account@gmail.com",9000000000l,60000);


Asspro=new
AssistantProfessor("kamal",600001,"Chennai","account@gmail.com",70000000011,70000)
;


Asopro=new AssociativeProfessor("kala",800001,"Chennai","account@gmail.com",40000000011
,80000);


prof=new Professor("nithin",900001,"chennai","account@gmail.com",2000000001,100000);

pro.printAccount(); Asspro.printStatement(); Asopro.printStatement(); prof.printStatement();
    }


}
```

OUTPUT:

Name of the employee:raja

Employee ID:300001

Address:Chennai

Mail ID of the employee:account@gmail.com

Mobile number of the employee:90876487148

Basic pay:60000.0------------------------

Name of the employee:mahesh

Employee ID:17001301

Address:Chennai

Mail ID of the employee:account@gmail.com

Mobile number of the employee:78985932239

Basic pay:70000.0

duty allowance(DA):67900.00

HRA:7000.00

PF:8400.000000

staff club fund:70.00

gross salary is:83370.00

net salary is:74900.00

Name of the employee:mahalakshmi

Employee ID:17001302

Address:Chennai

Mail ID of the employee:account@gmail.com

Mobile number of the employee:4098649786

Basic pay:80000.0

duty allowance(DA):77600.00

HRA:8000.00

PF:9600.000000

staff club fund:80.00

gross salary is:95280.00

net salary is:85600.00

Name of the employee:nithinEmployee ID:17001303 Address:chennai
Mail ID of the employee:account@gmail.com

Mobile number of the employee:2045646534

Basic pay:100000.0

duty allowance(DA):97000.00

HRA:10000.00

PF:12000.000000

staff club 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.