Ex.No.03 Java application for pay slip generation 23/07/19

AIM:

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

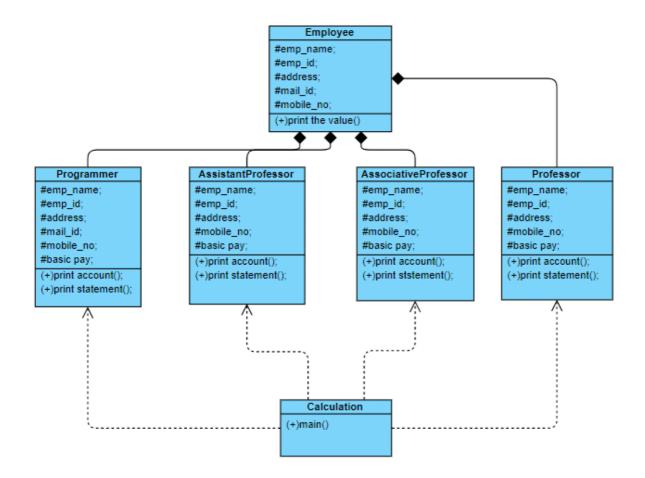
REQUIREMENT:

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 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
* @author N.Kaushik
* kaushikkaran08@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;
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 N.kaushik
* kaushikkaran08@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);
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;
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
* @author N.kaushik
* kaushikkaran08@gmail.com
*/
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);
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
* @author N.kaushik
* kaushikkaran08@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);
}
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
* @author N.kaushik
* kaushikkaran08@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);
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
* author@N.kaushik
* kaushikkaran08@gmail.com
package Payroll;
public class Calculation {
public static void main(String[] args) {
Programmer pro;
AssistantProfessor Asspro;
AssociativeProfessor Asopro;
Professor prof;
pro=new
Programmer("sunitha",17001300,"Chennai","account@gmail.com",9000000001,60000);
Asspro=new
AssistantProfessor("mahesh",17001301,"Chennai","account@gmail.com",70000000011,70000)
```

Asopro=new

```
AssociativeProfessor("mahalakshmi",17001302,"Chennai","account@gmail.com",40000000011,80000);

prof=new

Professor("nithin",17001303,"chennai","account@gmail.com",2000000001,100000);

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

OUTPUT:

Name of the employee:sunitha
Employee ID:17001300
Address:Chennai
Mail ID of the employee:account@gmail.com
Mobile number of the employee:900000000
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:7000000001

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:4000000001

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:nithin

Employee ID:17001303

Address:chennai

Mail ID of the employee:account@gmail.com Mobile number of the employee:2000000001

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.