I	EX.NO:3
2	22-07-19

PAYSLIP GENERATION

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

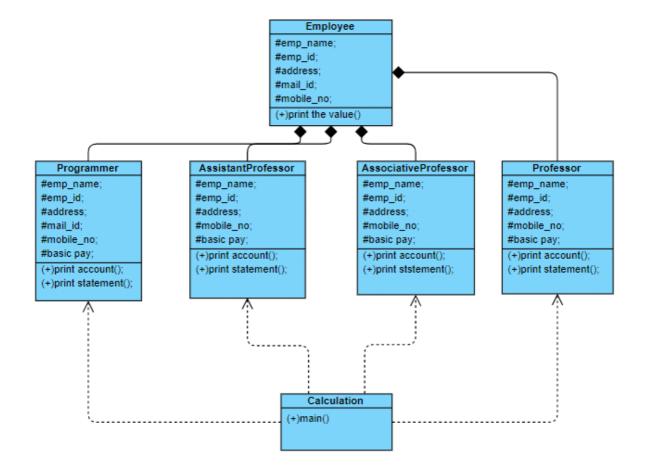
Develop a java application to create a package payroll and to create the class as employee with emp_name,emp_id,address,mail_id,mobile_no as data members. Inherit the classes as programmer,assistantprofessor,associativeprofessor,professor.add the basic pay as data member for these classes.

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
* creted by ngurusai
*/
package payroll;
public class Employee {
      protected String emp name;
      protected double emp id;
      protected String address;
protected String mail_id;
      protected double mobile 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;
            Programmer pro;
            AssistantProfessor AssistProf;
            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=new
AssistantProfessor("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;
             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 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("Basic pay:"+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("Basic pay:"+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("Basic pay:"+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:chennai
EMail:a@gmail.com
Mobile:974643.0
Name:e
EMP ID:10005.0
Address:chennai
EMail:e@gmail.com
Mobile: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: chennai
EMail:b@gmail.com
Mobile: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:chenani EMail:c@gmail.com Mobile: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:chennai EMail:d@gmail.com Mobile: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.