

EXP.NO:03	PAY SLIP GENERATION
DATE:22.07.19	

AIM:-

To develop a java console for finding the gross and net salary using inheritance.

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

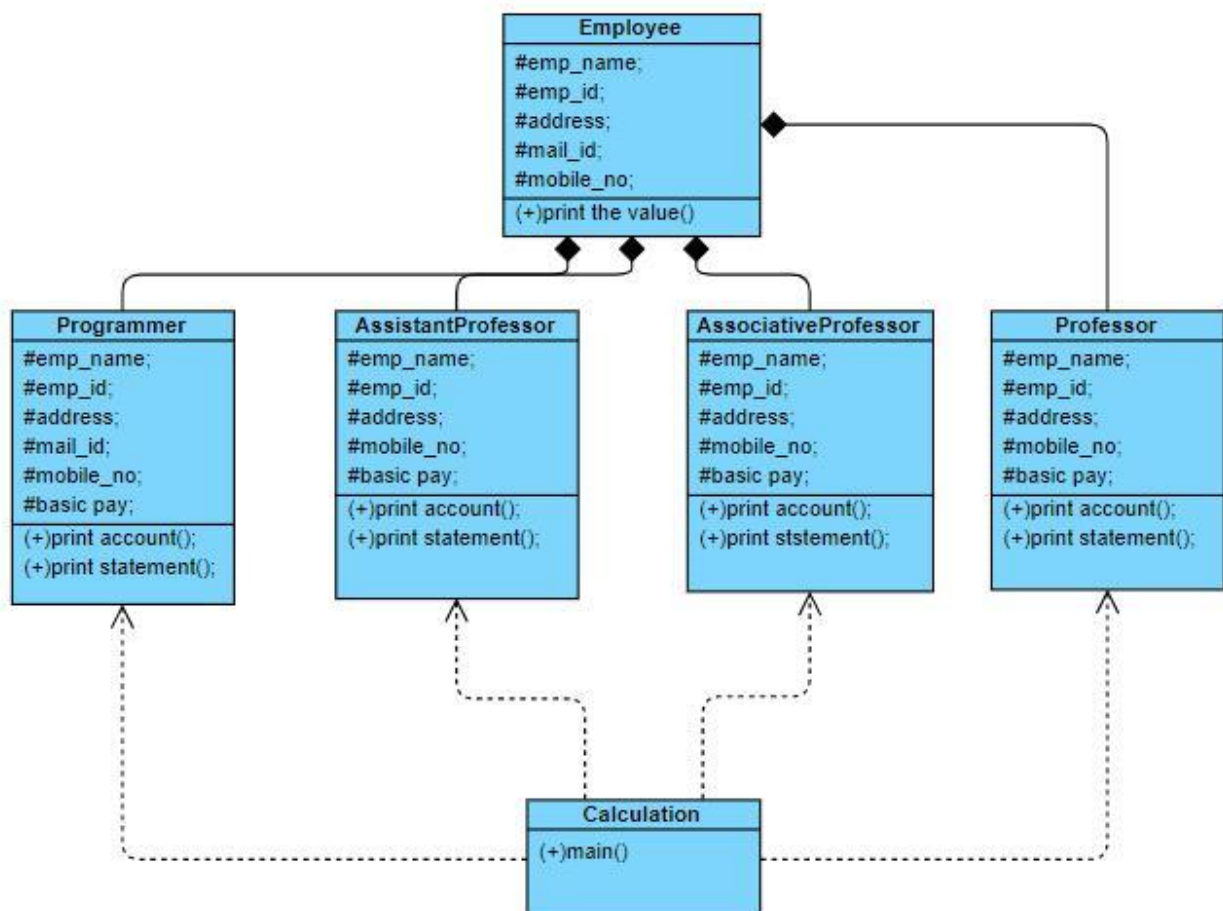
programmer,assistantprofessor,associativeprofessor,professor.add the basic pay as data member for these classes.

create the class calculation to print the DA,HRA,PF,Staff club fund,gross salary and net salary for the inheritance 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 inheritance.
6. Display the result.

CLASS DIAGRAM:



PROGRAMME:

AssistantProfessor.java

//created by M. uday kanth, eee-b, mail id:-udaykanth67@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);
    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

```

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

```

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

```

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()
{
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

```

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;

```

```

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");

}
}

```

Programmer.java

```

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;

```

```

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