Ex No. 3	PAYSLIP GENERATION
Date: 22/07/2019	

Aim:

* To develop a Java application for the generation of Payslip for the Employee, Programmer, Professor, Assistant Professor, Associate Professor.

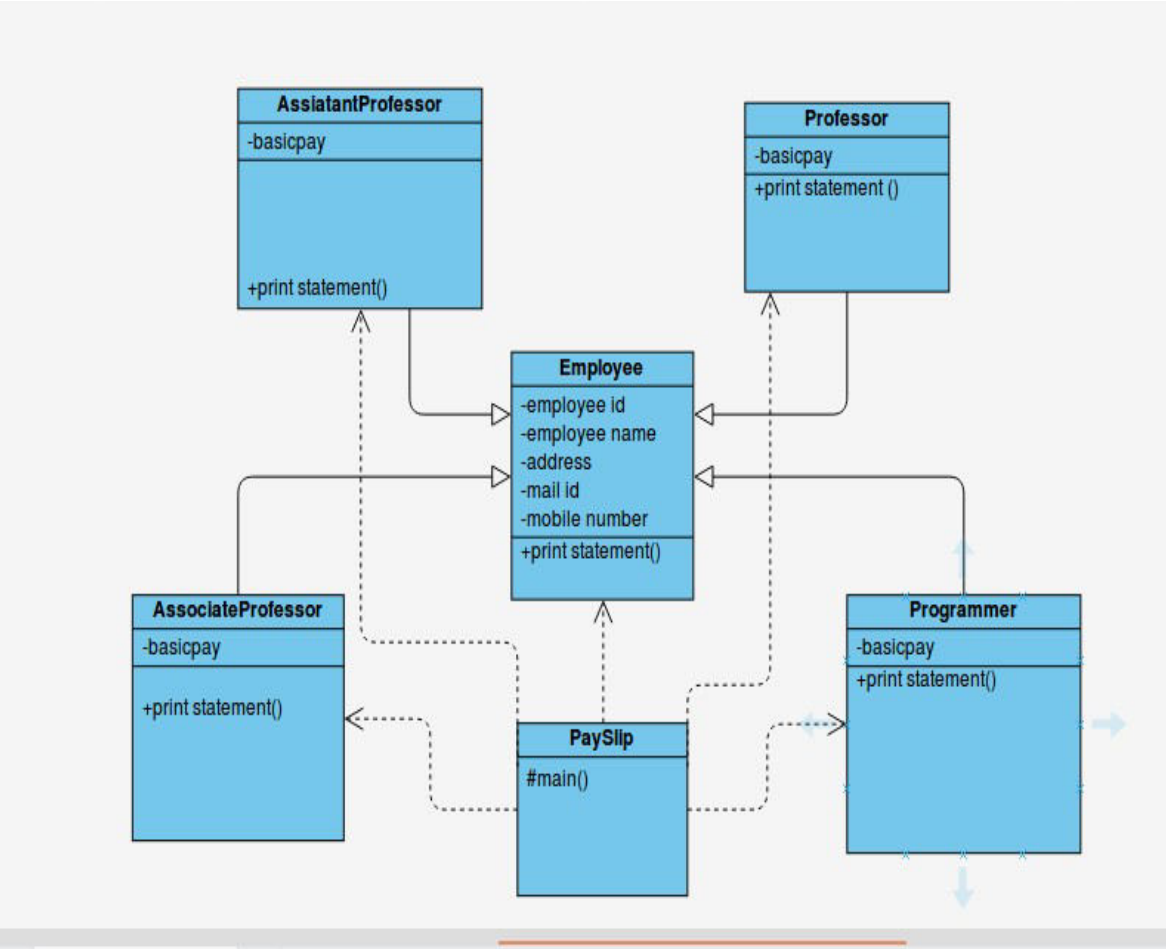
Requirements:

*Develop a java console application to create a pacakge payroll to create the class employee with emp_name, emp_id, address, mail ID, mobile_no. As data member.

Algorithm:

STEP-1 Declare a package payroll
STEP-2 Declare the class as employee.
STEP-3 Declare a constant and add the data member
STEP-4 Inherit the classes from the superclass and add the data mameber of basic pay
STEP-5 Calculate the gross salary and net salary based on the inheritage,
STEP-6 Display the payslip bill

Class Diagram:



Program:

```
/****
 * program to represent payroll
 * Developed by
 * Sarathi Raj
 * sarathiraj852000@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="noname";
emp_id=100001;
address="not given";
mail_id="not given";
mobile_no=80000001;
}

public Employee(String n,long id,String ad,String mail,long mo)
{
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 Programmer extends Employee{
		private double basicpay;


		public Programmer()
		{
			basicpay=0;
		}


		public Programmer (String n,long id,String ad, String mail, long
mo,double BP)
		{
			super (n,id,ad,mail,mo);
			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("Staff salary is:%2f\n",gross);
                System.out.printf("net salary is:%2f\n",net);
                }
}

package payroll;

public class AssistantProfessor extends Employee {
                private double basicpay;
```

```
	public AssistantProfessor()
	{
		basicpay=0;
	}
	public AssistantProfessor (String n, long id, String ad, String mail, long mo, double BP)
	{
		super (n,id,ad,mail,mo);
		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("Staff salary is:%2f\n",gross);
                System.out.printf("net salary is:%2f\n",net);

                }
}

package payroll;

public class AssociateProfessor extends Employee {
private double basicpay;


                public AssociateProfessor()
                {
                                basicpay=0;
                }
                public AssociateProfessor (String n, long id, String ad, String
mail, long mo, double BP)
                {
```

```
            super (n,id,ad,mail,mo);
            basicpay=BP;
}
public void printEmployee()
{

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

                }
}
```

```
package payroll;

public class Professor extends Employee {
private double basicpay;

                public Professor()
                {
                                basicpay=0;
                }
                public Professor (String n, long id, String ad, String mail, long
mo, double BP)
                {
                                super (n,id,ad,mail,mo);
                                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("Staff salary is:%2f\n",gross);
        System.out.printf("net salary is:%2f\n",net);

        }
}
```

```
package payroll;

public class PaySlip{

		public static void main (String[]args) {

				Programmer pro;

				AssistantProfessor AssPro;

				AssociateProfessor AsoPro;

				Professor Prof;

				pro=new
Programmer("Nithish",300001,"chennai","nithish@.com",9000001,600000);

				AssPro=new AssistantProfessor
("Kumar",600001,"chennai","kumar@gmail.com",70000001,50000);

				AsoPro=new
AssociateProfessor("kala",8000001,"trichy","kala@gmail.com",700001,70000);

				Prof=new Professor
("Reddy",9000001,"kadapa","reddy@gmail.com",2000001,900000);

				pro.printAccount();

				AssPro.printStatement();

				AsoPro.printStatement();

				Prof.printStatement();

		}




}
```

Output:

```
Name:Nithish
EMP ID:300001
Address:chennai
EMail:nithish@.com
Mobile:9000001
Basic pay:600000.0
Name:Kumar
EMP ID:600001
```

```
Address:chennai
EMail:kumar@gmail.com
Mobile:70000001
Basic pay:50000.0
Duty Allowance (DA):48500.000000
HRA:5000.000000
PF:6000.000000
Staff club fund:50.000000
Staff salary is:59550.000000
net salary is:53500.000000
Name:kala
EMP ID:8000001
Address:trichy
EMail:kala@gmail.com
Mobile:700001
Duty Allowance (DA):67900.000000
HRA:7000.000000
PF:8400.000000
Staff club fund:70.000000
Staff salary is:83370.000000
net salary is:74900.000000
Name:Reddy
EMP ID:9000001
Address:kadapa
EMail:reddy@gmail.com
Mobile:2000001
Basic pay:900000.0
Duty Allowance (DA):873000.000000
HRA:90000.000000
PF:108000.000000
Staff club fund:900.000000
Staff salary is:1071900.000000
net salary is:963000.000000
```

Result:

* Thus, the program for the payslip generation is written and executed successfully.