EX.NO.:03	PAYSLIP GENERATION
DATE: 22-07-19	

AIM:

To develop a java program to generate payslip for the employees with their gross and net salary

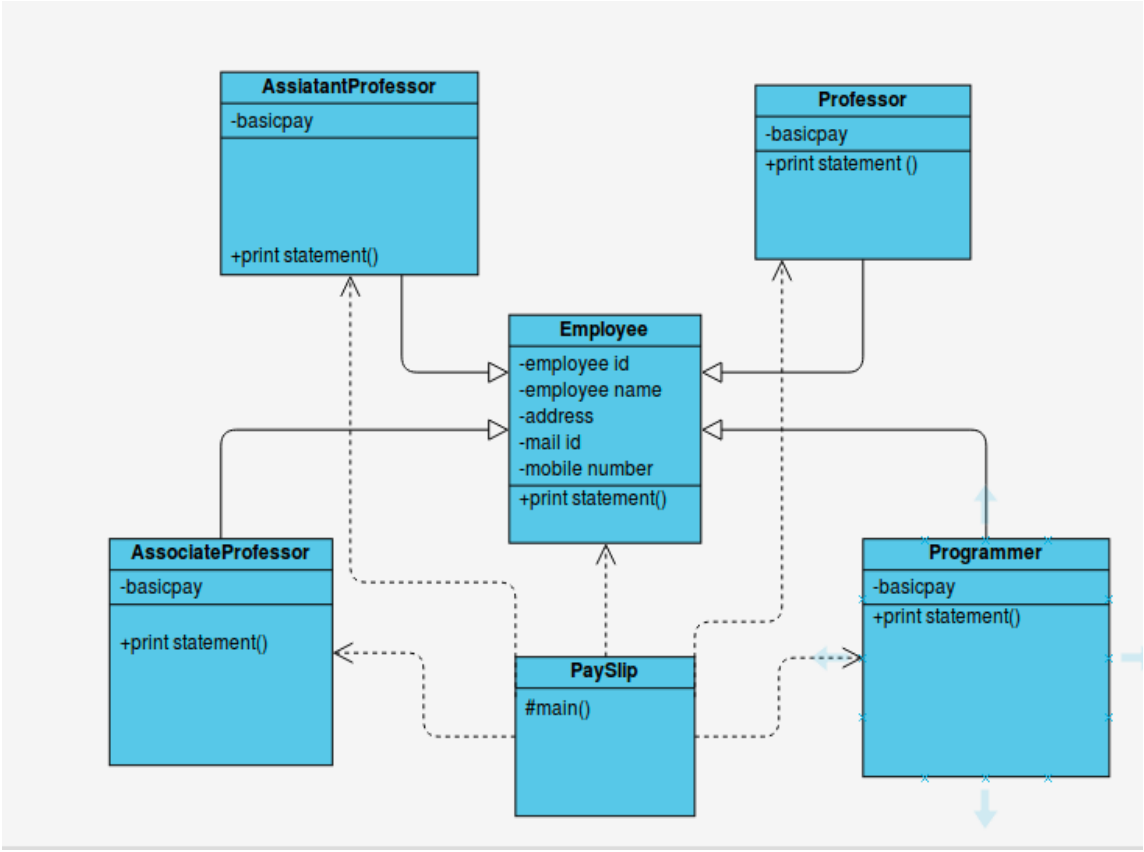
REQUIREMENT:

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:

```java
/**
*EXPERIMENT-03
*developed by Nithishkumar
*Saveetha Engineering College
*jpnithishkumar@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);
}

}
```

```java
/**
*EXPERIMENT-03
*developed by Nithishkumar
*Saveetha Engineering College
*jpnithishkumar@gmail.com
*/
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);


                }
}
```

```java
/**
*EXPERIMENT-03
*developed by Nithishkumar
*Saveetha Engineering College
*jpnithishkumar@gmail.com
*/

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 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);


                }
}
```

```java
/**
*EXPERIMENT-03
*developed by Nithishkumar
*Saveetha Engineering College
*jpnithishkumar@gmail.com
*/


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);


                }
```

```
}
/**
*EXPERIMENT-03
*developed by Nithishkumar
*Saveetha Engineering College
*jpnithishkumar@gmail.com
*/


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);
                }
}
```

```java
/**
*EXPERIMENT-03
*developed by Nithishkumar
*Saveetha Engineering College
*jpnithishkumar@gmail.com
*/
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",9000001,60000
0);

				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
Basic pay:70000.0
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 java application is generated successfully.