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

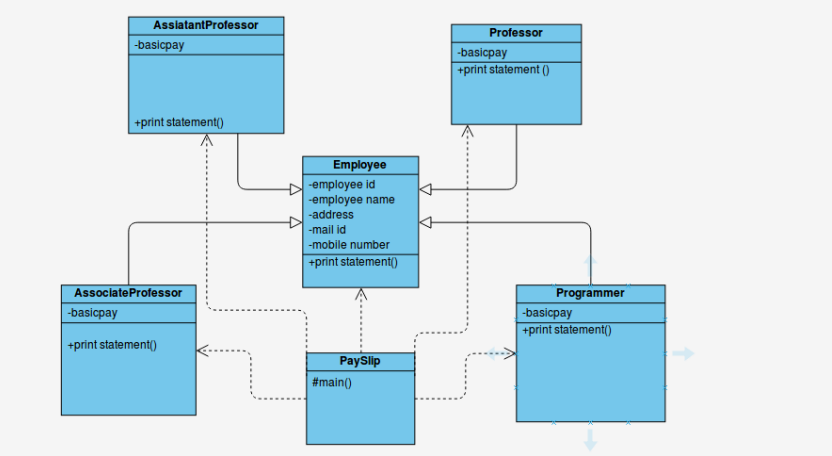
REQUIREMENT:

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:

```
/*
 * this program is used to generate payslip
 developed by yogeeswaran
 yogeeswaran0210@gmail.com

 */
package PAYROLL;
import java.util.Scanner;

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 read()
    {
            Scanner sc= new Scanner(System.in);
            System.out.println("Enter the employee id:");//taking all the inputs from the user
emp_id=sc.nextInt();
System.out.println("Enter the employee name:");
emp_name=sc.next();
System.out.println("Enter the mail ID:");
mail_id=sc.next();
System.out.println("Enter the mobile no.:");
mobile_no=sc.nextInt();
System.out.println("Enter the employee address:");
address=sc.next();

    }

    public void printAccount()
    {
            System.out.println("Name:"+emp_name);
            System.out.println("Account ID:"+emp_id);
            System.out.println("Address:"+address);
            System.out.println("EMail:"+mail_id);
            System.out.println("Mobile:"+mobile_no);


    }
```

```
}


package PAYROLL;

public class AssistantProfessor extends Employee {

	private double basic_pay;
	public  double da;
	public  double hra;
	public  double pf;
	public  double staff_club;
	public  double gross_salary;
	public  double net_salary;


	public  AssistantProfessor()
	{
	basic_pay=0;

	}

	public  AssistantProfessor(String n,long id,String ad,String mail,long mo,long bp)
	{
		super(n,id,ad,mail,mo);
		basic_pay=bp;
	}
	public void print()
	{
		System.out.println("basic amount credited:"+basic_pay);

	}

	public  void  calculation()
	{
		da=97.0/100*basic_pay;

		hra=10.0/100*basic_pay;

		pf=12.0/100*basic_pay;

		staff_club=0.1/100*basic_pay;

		gross_salary=da+hra+pf+staff_club;

		net_salary=gross_salary-(pf+staff_club);

	}
```

```
	public void printStatement()
	{
		super.printAccount();
		System.out.println("Employee Basic salary :"+basic_pay);
		System.out.println("Employee Gross salary :"+gross_salary);
		System.out.println("Employee Net salary :"+net_salary);



	}
}



package PAYROLL;

import java.util.Scanner;

public class AssociateProfessor extends Employee{

	private double basic_pay;
	public double da;
	public double hra;
	public double pf;
	public double staff_club;
	public double gross_salary;
	public double net_salary;


	public AssociateProfessor()
	{
	basic_pay=0;

	}

	public AssociateProfessor(String n,long id,String ad,String mail,long mo,long bp)
	{
		super(n,id,ad,mail,mo);
		basic_pay=bp;
	}
	public void read1()
	{
	  Scanner sc=new Scanner(System.in);
	  System.out.println("Enter the basic salary:");
    emp_name=sc.next();
	}
```

```
	public void calculation()
	{
		da=(97.0/100.0)*basic_pay;
		hra=(10.0/100.0)*basic_pay;
		pf=(12.0/100.0)*basic_pay;
		staff_club=(0.1/100.0)*basic_pay;
		gross_salary=da+hra+pf+staff_club;
		net_salary=gross_salary-(pf+staff_club);
	}




	public void printStatement()
	{
		super.printAccount();
		System.out.println("Employee Basic salary :"+basic_pay);
		System.out.println("Employee Gross salary :"+gross_salary);
		System.out.println("Employee Net salary :"+net_salary);



	}
}


package PAYROLL;

import java.util.Scanner;

public class Professor extends Employee {


	private double basic_pay;
	public double da;
	public double hra;
	public double pf;
	public double staff_club;
	public double gross_salary;
	public double net_salary;


	public Professor()
	{
	basic_pay=0;

	}

	public Professor(String n,long id,String ad,String mail,long mo,long bp)
	{
```

```
                super(n,id,ad,mail,mo);
                basic_pay=bp;
        }
        public void read1()
        {
          Scanner sc=new Scanner(System.in);
          System.out.println("Enter the basic salary:");
    emp_name=sc.next();
        }


        public void calculation()
        {
                da=(97.0/100.0)*basic_pay;
                hra=(10/100.0)*basic_pay;
                pf=(12.0/100.0)*basic_pay;
                staff_club=(0.1/100.0)*basic_pay;
                gross_salary=da+hra+pf+staff_club;
                net_salary=gross_salary-(pf+staff_club);
        }




        public void printStatement()
        {
                super.printAccount();
                System.out.println("Employee Basic salary :"+basic_pay);
                System.out.println("Employee Gross salary :"+gross_salary);
                System.out.println("Employee Net salary :"+net_salary);



        }
}

        package PAYROLL;


public class Programmer extends  Employee {

        private double basic_pay;
        public double da;
        public double hra;
        public double pf;
        public double staff_club;
        public double gross_salary;
        public double net_salary;


        public Programmer()
        {
```

```
	basic_pay=0;

	}

	public Programmer(String n,long id,String ad,String mail,long mo,long bp)
	{
		super(n,id,ad,mail,mo);
		basic_pay=bp;
	}

	public void calculation()
	{
		da=(97.0/100.0)*basic_pay;
		hra=(10.0/100.0)*basic_pay;
		pf=(12.0/100.0)*basic_pay;
		staff_club=(0.1/100.0)*basic_pay;
		gross_salary=da+hra+pf+staff_club;
		net_salary=gross_salary-(pf+staff_club);
	}




	public void printStatement()
	{

		super.printAccount();
		System.out.println("Employee Basic salary :"+basic_pay);
		System.out.println("Employee Gross salary :"+gross_salary);
		System.out.println("Employee Net salary :"+net_salary);



	}
}


	package PAYROLL;


public class salarycredited {
	public static void main(String[] args) {
		Employee emp;
		Programmer prog;
		AssistantProfessor ass1;
		AssociateProfessor ass2;
		Professor pro;

			emp=new
Employee("employee",300001,"Chennai","account@gmail.com",9000000001l);
			prog=new
Programmer("programmer",300001,"Chennai","account@gmail.com",9000000001l,10000);
```

```
                        ass1=new
AssistantProfessor("asspro",300001,"Chennai","account@gmail.com",9000000001l,10000);
                        ass2=new
AssociateProfessor("assopro",600001,"Chennai","account@gmail.com",7000000001l,20000);
                        pro=new
Professor("professor",800001,"Chennai","account@gmail.com",4000000001l,40000);
                        emp.printAccount();
                        prog.calculation();
                        ass1.calculation();
                        ass2.calculation();
                        pro.calculation();
                        prog.printStatement();
                        ass1.printStatement();
                        ass2.printStatement();
                        pro.printStatement();
        }
}
```

OUTPUT:

```
Name:employee
Account ID:300001
Address:Chennai
EMail:account@gmail.com
Mobile:9000000001
Name:programmer
Account ID:300001
Address:Chennai
EMail:account@gmail.com
Mobile:9000000001
Employee Basic salary :10000.0
Employee Gross salary :11910.0
Employee Net salary :10700.0
Name:asspro
Account ID:300001
Address:Chennai
EMail:account@gmail.com
Mobile:9000000001
Employee Basic salary :10000.0
Employee Gross salary :11910.0
Employee Net salary :10700.0
Name:assopro
Account ID:600001
Address:Chennai
EMail:account@gmail.com
Mobile:7000000001
Employee Basic salary :20000.0
Employee Gross salary :23820.0
Employee Net salary :21400.0
Name:professor
Account ID:800001
```

Address:Chennai
EMail:account@gmail.com
Mobile:4000000001
Employee Basic salary :40000.0
Employee Gross salary :47640.0
Employee Net salary :42800.0

RESULT:

Thus the java application is generated successfully