

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 package 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.

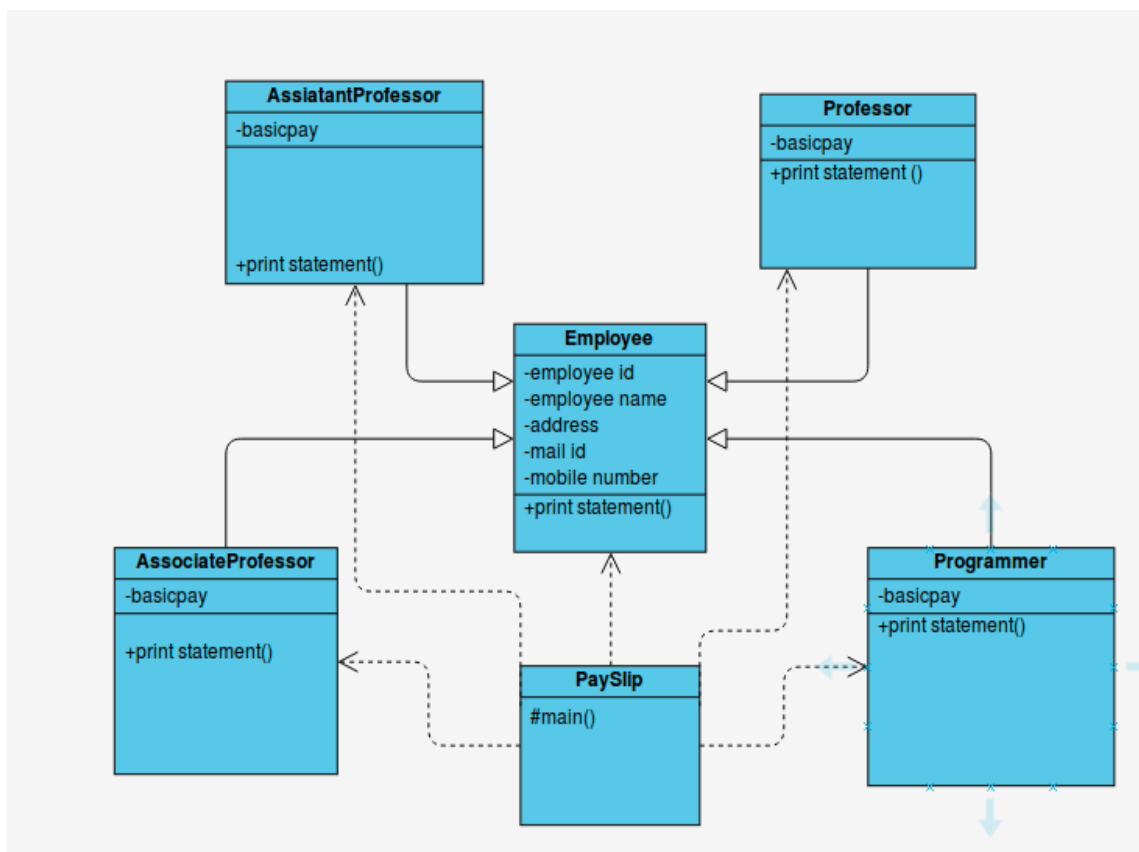
STEP-3 Declare a constant and add the data member

STEP-4 Inherit the classes from the superclass and add the data member of basic pay

STEP-5 Calculate the gross salary and net salary based on the inheritance,

STEP-6 Display the payslip bill

## CLASS DIAGRAM:



## PROGRAM:

```
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:"+
System.out.println("Account ID:"+emp_id);
System.out.println("Address:"+
System.out.println("EMail:"+
System.out.println("Mobile:"+

}
}

```

```

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_
    net_salary=gross_salary-(pf+
}
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_
gross_salary=da+hra+pf+staff_
net_salary=gross_salary-(pf+
}
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_
gross_salary=da+hra+pf+staff_
net_salary=gross_salary-(pf+
}
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,"account@gmail.com",
prog=new Programmer("programmer",account@",900000000011,10000);
ass1=new AssistantProfessor("asspro",account@",900000000011,10000);
ass2=new AssociateProfessor("assopro",account@",700000000011,20000);
pro=new Professor("professor",800001,"account@gmail.com",
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](mailto:account@gmail.com)  
Mobile:90000000001  
Name:programmer  
Account ID:300001  
Address:Chennai  
[EMail:account@gmail.com](mailto: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](mailto: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](mailto: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](mailto: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