

EX.NO:3	PAY SLIP 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.

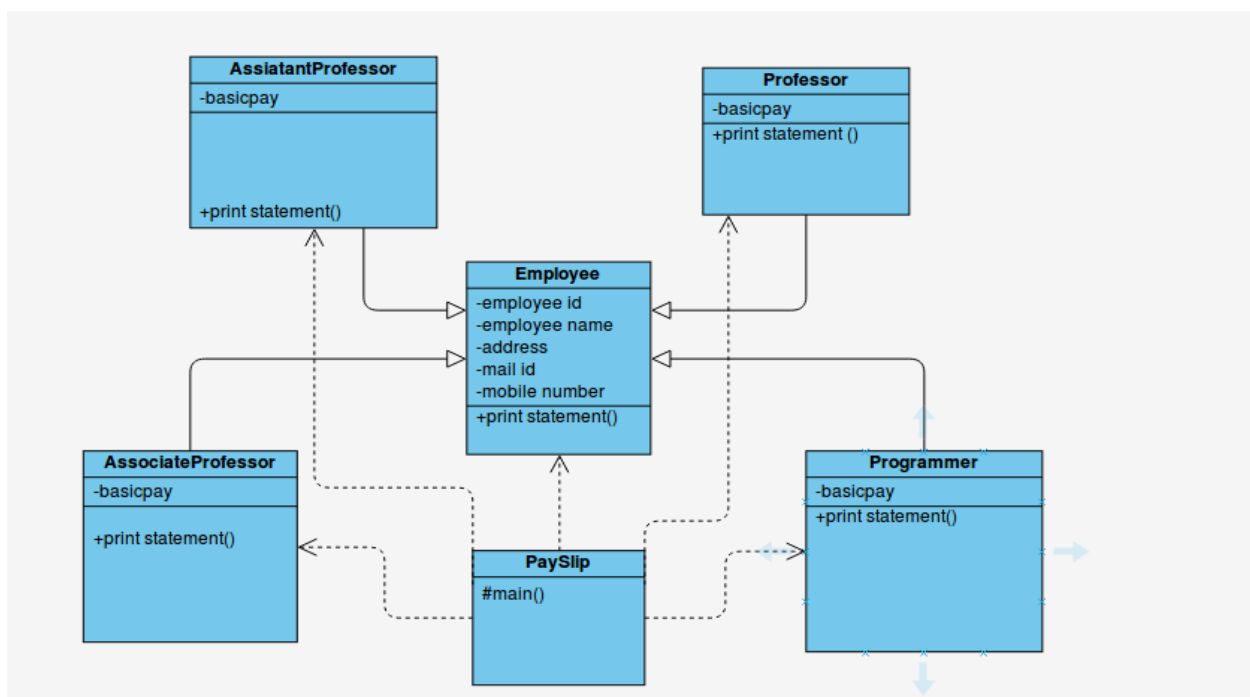
STEP-3 Declare a constant and add the data member.

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

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

STEP-6 Display the payslip bill.

## FLOW CHART:



## 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=800000001;

    }

    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",90000000001l);

prog=new
Programmer("programmer",300001,"Chennai","account@gmail.com",90000000001l,10000);

ass1=new
AssistantProfessor("asspro",300001,"Chennai","account@gmail.com",90000000001l,10000);

ass2=new
AssociateProfessor("assopro",600001,"Chennai","account@gmail.com",70000000001l,20000);

pro=new Professor("professor",800001,"Chennai","account@gmail.com",40000000001l,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 for pay slip is generated successfully.