

EX.NO.:03	<b>PAYSLIP GENERATION</b>
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.

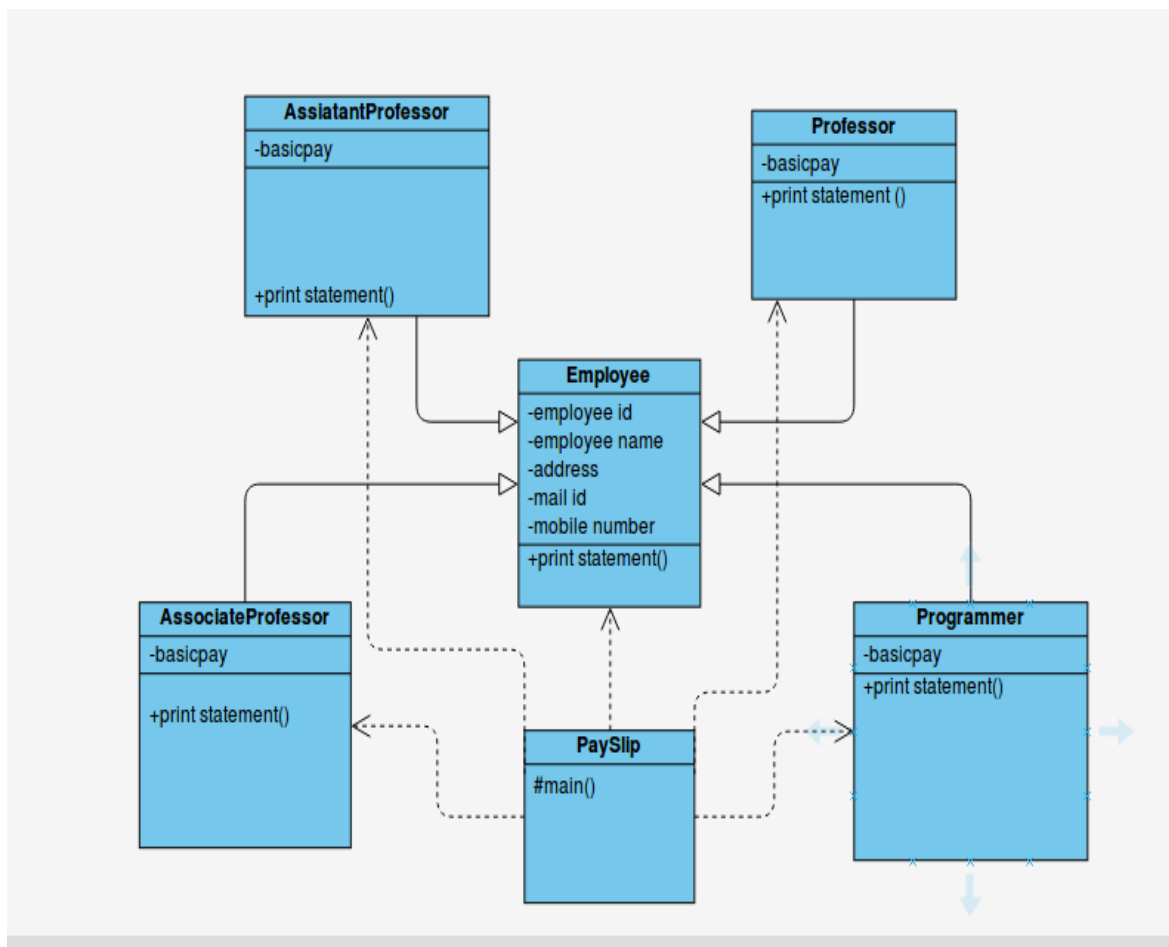
STEP-3 Declare a constant and add the data member

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

## CLASS DIAGRAM:



## PROGRAM:

```

/*
 * this program is used to generate payslip
 * developed by tamilselvan u
 * tamilfreakz002@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=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:90000000001**  
**Name:programmer**  
**Account ID:300001**  
**Address:Chennai**  
**EMail:account@gmail.com**  
**Mobile:90000000001**  
**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**