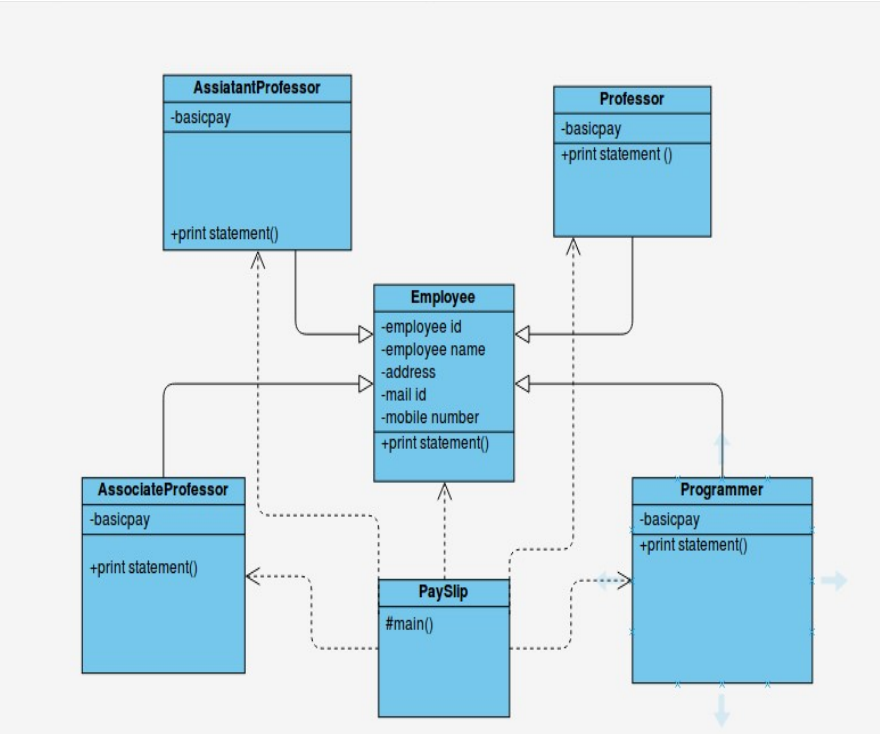
EX.NO.:03	PAYSLIP GENERATION
DATE: 22-07-19	

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:

```
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,200
00);
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