Ex No. 3	
Date: 22/07/2019	PAYSLIP GENERATION

Aim:

* To develop a Java application for the generation of Payslip for the Employee, Programmer, Professor, Assistant Professor, Associate Professor.

Requirements:

*Develop a java console application to create a pacakge payroll to create the class employee with Employee name, Employee ID, Address, Email id, Mobile number as data members.

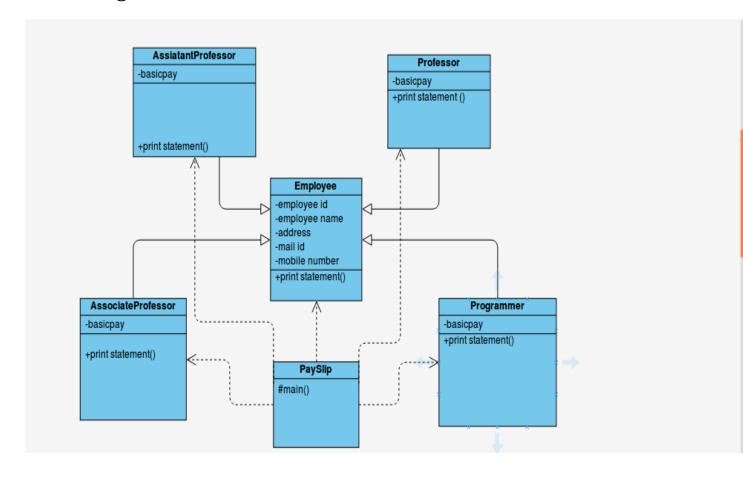
Algorithm:

- Step 1: Declare a package payroll.
- Step 2: Declare the super class Employee.
- Step 3: Declare the sub classes Programmer, Professor, Assistant

Professor, AssociateProfessor and PaySlip.

- Step 4: Declare a constant and add the data member
- Step 5: Inherit the subclasses from the superclass and add the data member basic pay.
- Step 6: Calculate the gross salary and net salary based on the data members
- Step 7: Display the payslip bill.

Class Diagram:



Program:

```
* this program is used to generate PaySlip
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 * /
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=8000001;
     }
     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", 9000000011);
                prog=new
Programmer("programmer", 300001, "Chennai", "account@gmail.com", 900000000
11,10000);
                 ass1=new
AssistantProfessor("asspro",300001, "Chennai", "account@gmail.com",90000
000011,10000);
                 ass2=new
AssociateProfessor("assopro",600001, "Chennai", "account@gmail.com",7000
0000011,20000);
                 pro=new
Professor("professor", 800001, "Chennai", "account@gmail.com", 40000000011
,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:900000001
Name:programmer
Account ID:300001
Address: Chennai
EMail:account@gmail.com
Mobile:900000001
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:900000001
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:700000001
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:400000001
Employee Basic salary :40000.0
Employee Gross salary :47640.0
Employee Net salary: 42800.0
```

Result:

* Thus the java application for the generation of payslip is created and executed successfully.