DATE:23/7/19

JAVA APPLICATION TO GENERATE
PAY SLIP

# Aim:

To develope a java application in order to generate a pay slip for the employee with their gross and net salary.

#### **Requirement:**

Create a package payroll. Develop a java application with Employee class with emp\_name, emp\_id, address, mail\_id,mobile\_no as members. Inherit the classes, Programmer, Assistant Professor, Associate Professor and Professor from Employee class. Add basicPay (BP) as the member of all the inherited classes with 97% of BP as DA, 10 % of BP as HRA, 12% of BP as PF, 0.1% of BP for staff club fund. Generate pay slips for the employees with their gross and net salary.

#### Alogorithm:

Step1: create class employee with reqired attributes members function and constructor in package payroll .

Step2: create class programmer inherit employee with requird attributes, methods in package payroll.

Step3: create class assistant professor, associate professor and professor inheriting from class employee with reqired attributes,methods and constructor in package payroll.

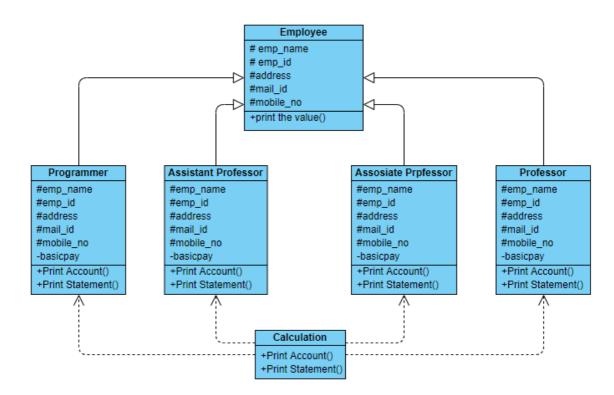
Step4: create class payslip with static main function.

Step5: create object for employee,programmer,assistant professor,associate professor and professor.

Step6: initialise object with value passed through constructor .

Step7: display the data.

# **Class Diagram:**



## **Program:**

```
* Created By Avinash Raja

*EEE-A

*avinashraja777@gmail.com

*/

package Payment;

public class Employee {
    public String emp_name;
    private long emp_id;
    protected String address;
    public String mail_id;
```

```
public Employee()
{
       emp_name="lokesh";
       emp_id=10031;
       address="not given";
       mail_id="not given";
       mobile_no=9841127485l;
}
public Employee(String n,long id,String ad,String mail,long num)
{
       emp_name=n;
       emp_id=id;
       address=ad;
       mail_id=mail;
       mobile_no=num;
}
public void printEmployee()
{
       System.out.println("Name:"+emp_name);
       System.out.println("ID:"+emp_id);
       System.out.println("Address:"+address);
       System.out.println("Email:"+mail_id);
       System.out.println("Mobile:"+mobile_no);
}
}
* Created By Avinash Raja
package Payment;
```

protected long mobile\_no;

```
public class Programmer extends Employee{
       private double basic_pay;
public Programmer()
       {
              basic_pay=0;
       }
public Programmer(String n,long id,String ad,String mail,long num,double bp)
{
       super(n,id,ad,mail,num);
       basic_pay=bp;
}
public void printAccount()
{
       System.out.println("BASIC_PAY:"+basic_pay);
}
public void printEmployee()
{
       super.printEmployee();
       double da,hra,pf,clubfund,grosssalary,netsalary,deduction;
       da=0.97*basic_pay;
       hra=0.1*basic_pay;
       pf=0.12*basic_pay;
       clubfund=0.1*basic_pay;
       deduction=pf+clubfund;
       grosssalary=basic_pay+da+hra;
       netsalary=grosssalary+deduction;
       System.out.println("DA:"+da);
       System.out.println("HRA:"+hra);
       System.out.println("PF:"+pf);
```

```
System.out.println("CLUB FUND:"+clubfund);
       System.out.println("DEDUCTION:"+deduction);
       System.out.println("NETSALARY:"+netsalary);
       System.out.println("GROSS SALARY:"+grosssalary);
}
}
/** * Created By Avinash Raja
package Payment;
public class AssistantProfessor extends Employee{
       private double basic_pay;
       public AssistantProfessor()
              {
                     basic_pay=0;
              }
       public AssistantProfessor(String n,long id,String ad,String mail,long num,double bp)
       {
              super(n,id,ad,mail,num);
              basic_pay=bp;
       }
       public void printAccount()
       {
              System.out.println("BASIC_PAY:"+basic_pay);
       }
       public void printEmpolyee()
       {
              super.printEmployee();
              double da,hra,pf,clubfund,grosssalary,netsalary,deduction;
              da=0.97*basic_pay;
              hra=0.1*basic_pay;
```

```
pf=0.12*basic_pay;
              clubfund=0.1*basic_pay;
              deduction=pf+clubfund;
              grosssalary=basic_pay+da+hra;
              netsalary=grosssalary+deduction;
              System.out.println("DA:"+da);
              System.out.println("HRA:"+hra);
              System.out.println("PF:"+pf);
              System.out.println("CLUB FUND:"+clubfund);
              System.out.println("DEDUCTION:"+deduction);
              System.out.println("GROSSSALARY:"+grosssalary);
              System.out.println("NETSALARY:"+netsalary);
       }
       }
* Created By Avinash Raja
*/
package Payment;
public class AssistantProfessor extends Employee{
       private double basic_pay;
       public AssistantProfessor()
              {
                     basic_pay=0;
              }
       public AssistantProfessor(String n,long id,String ad,String mail,long num,double bp)
       {
              super(n,id,ad,mail,num);
              basic_pay=bp;
       }
       public void printAccount()
       {
              System.out.println("BASIC_PAY:"+basic_pay);
```

```
}
       public void printEmpolyee()
              super.printEmployee();
              double da,hra,pf,clubfund,grosssalary,netsalary,deduction;
              da=0.97*basic_pay;
             hra=0.1*basic_pay;
              pf=0.12*basic_pay;
              clubfund=0.1*basic_pay;
              deduction=pf+clubfund;
              grosssalary=basic_pay+da+hra;
              netsalary=grosssalary+deduction;
              System.out.println("DA:"+da);
              System.out.println("HRA:"+hra);
              System.out.println("PF:"+pf);
              System.out.println("CLUB FUND:"+clubfund);
              System.out.println("DEDUCTION:"+deduction);
              System.out.println("GROSSSALARY:"+grosssalary);
              System.out.println("NETSALARY:"+netsalary);
       }
       }
/**
* Created By Avinash Raja
*/
package Payment;
public class AssociateProfessor extends Employee {
       private double basic_pay;
       public AssociateProfessor()
              {
                     basic_pay=0;
              }
```

```
public AssociateProfessor(String n,long id,String ad,String mail,long num,double bp)
{
       super(n,id,ad,mail,num);
       basic_pay=bp;
}
public void printAccount()
{
       System.out.println("BASIC_PAY:"+basic_pay);
}
public void printEmployee()
{
       super.printEmployee();
       double da,hra,pf,clubfund,grosssalary,netsalary,deduction;
       da=0.97*basic_pay;
       hra=0.1*basic_pay;
       pf=0.12*basic_pay;
       clubfund=0.1*basic_pay;
       deduction=pf+clubfund;
       grosssalary=basic_pay+da+hra;
       netsalary=grosssalary+deduction;
       System.out.println("DA:"+da);
       System.out.println("HRA:"+hra);
       System.out.println("PF:"+pf);
       System.out.println("CLUB FUND:"+clubfund);
       System.out.println("DEDUCTION:"+deduction);
       System.out.println("GROSSSALARY:"+grosssalary);
       System.out.println("NETSALARY:"+netsalary);
}
}
```

```
* Created By Avinash Raja
package Payment;
public class Professor extends Employee {
       private double basic_pay;
       public Professor()
              {
                     basic_pay=0;
              }
       public Professor(String n,long id,String ad,String mail,long num,double bp)
       {
              super(n,id,ad,mail,num);
              basic_pay=bp;
       } * Created By Avinash Raja
package Payment;
public class Professor extends Employee {
       private double basic_pay;
       public Professor()
              {
                     basic_pay=0;
              }
       public Professor(String n,long id,String ad,String mail,long num,double bp)
       {
              super(n,id,ad,mail,num);
              basic_pay=bp;
       }
       public void printAccount()
       {
              System.out.println("BASIC_PAY:"+basic_pay);
       }
```

```
public void printEmployee()
{
       super.printEmployee();
       double da,hra,pf,clubfund,grosssalary,netsalary,deduction;
       da=0.97*basic_pay;
      hra=0.1*basic_pay;
       pf=0.12*basic_pay;
       clubfund=0.1*basic_pay;
       deduction=pf+clubfund;
       grosssalary=basic_pay+da+hra;
       netsalary=grosssalary+deduction;
       System.out.println("DA:"+da);
       System.out.println("HRA:"+hra);
       System.out.println("PF:"+pf);
       System.out.println("CLUB FUND:"+clubfund);
       System.out.println("DEDUCTION:"+deduction);
       System.out.println("GROSSSALARY:"+grosssalary);
       System.out.println("NETSALARY:"+netsalary);
}
}
public void printAccount()
{
       System.out.println("BASIC_PAY:"+basic_pay);
}
public void printEmployee()
{
       super.printEmployee();
       double da,hra,pf,clubfund,grosssalary,netsalary,deduction;
       da=0.97*basic_pay;
```

```
hra=0.1*basic_pay;
              pf=0.12*basic_pay;
              clubfund=0.1*basic_pay;
              deduction=pf+clubfund;
              grosssalary=basic_pay+da+hra;
              netsalary=grosssalary+deduction;
              System.out.println("DA:"+da);
              System.out.println("HRA:"+hra);
              System.out.println("PF:"+pf);
              System.out.println("CLUB FUND:"+clubfund);
              System.out.println("DEDUCTION:"+deduction);
              System.out.println("GROSSSALARY:"+grosssalary);
              System.out.println("NETSALARY:"+netsalary);
       }
       }
* Created By Avinash Raja
package Payment;
import Payment.Employee;
import Payment.Programmer;
import Payment. Assistant Professor;
import Payment. Associate Professor;
import Payment.Professor;
public class Calculation {
       public static void main(String[] args) {
              Programmer pro1;
              AssistantProfessor asp1;
```

```
AssociateProfessor ap1;
             Professor p1;
             pro1=new
Programmer("divakar",10008,"chennai","diva08@gmail",9841127487l,5000);
             asp1=new
AssistantProfessor("shelton",10020,"chennai","shel20@gmail",98411274881,5500);
             ap1=new
AssociateProfessor("charan",10018,"chennai","charan18@gmail",98411274891,6000);
             p1=new
Professor("kishore",10023,"chennai","kishore23@gmail",9841127480l,6500);
             pro1.printEmployee();
             asp1.printEmployee();
             ap1.printEmployee();
             p1.printEmployee();
       }
}
output:
Name:divakar
ID:10008
Address: chennai
Email:diva08@gmail
Mobile:9841127487
DA:4850.0
HRA:500.0
PF:600.0
CLUB FUND:500.0
DEDUCTION: 1100.0
NETSALARY: 11450.0
GROSS SALARY: 10350.0
Name: shelton
ID:10020
Address: chennai
Email:shel20@gmail
Mobile:9841127488
DA:5010.0
HRA:550.0
PF:650.0
CLUB FUND:550.0
DEDUCTION: 1250.0
GROSSSALARY: 11300.0
NETSALARY: 12420.0
```

Name:charan ID:10018

Address:chennai Email:charan18@gmail Mobile:9841127489

DA:5820.0 HRA:600.0 PF:720.0

CLUB FUND:600.0 DEDUCTION:1320.0 GROSSSALARY:12420.0 NETSALARY:13740.0

Name:kishore ID:10023

Address:chennai

Email:kishore23@gmail Mobile:9841127480

DA:6305.0 HRA:650.0 PF:780.0

CLUB FUND:650.0 DEDUCTION:1430.0 GROSSSALARY:13455.0 NETSALARY:14885.0

### **Result:**

Thus the java console application for currency, distance and time convertor is verified with output