

EX.NO : 03	PAY SLIP GENERATION
DATE : 22.07.19	

AIM:

To develop a java console application to find the gross and net salary using inheritance.

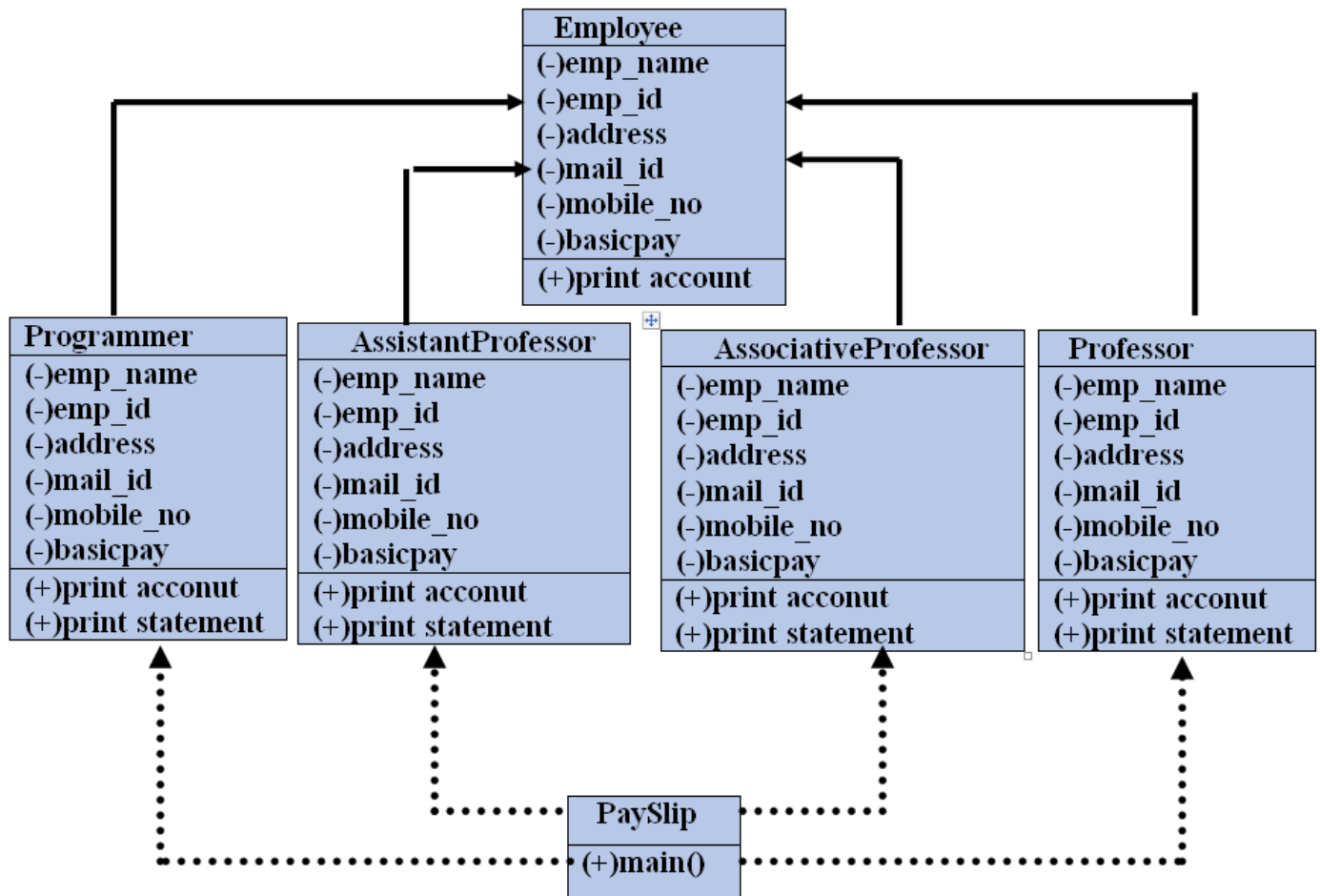
REQUIREMENT:

Develop a java application to create a package payroll and to create the class as employee with emp_name,emp_id,address,mail_id,mobile_no as data members. Inherit the classes as programmer,assistantprofessor,associativeprofessor,professor.add the basic pay as data member for these classes. create the class calculation to print the DA,HRA,PF,Staff club fund,gross salary and net salary for the inheritance classes.

ALGORITHM:

- Step 1.** Declare a package payroll.
- Step 2.** Declare the class as employee.
- Step 3.** Declare a constructor and add the data members.
- Step 4.** Inherit the classes from the super class and add the data members as basic pay.
- Step 5.** Calculate the gross salary and net salary on the inheritance.
- Step 6.** Display the result.

CLASS DIAGRAM:



PROGRAM:

```

/*****
 * program for pay slip generation
 * created by Rositha V
 *rosithav1@gmail.com
 */

package payroll;

import payroll.AssistantProfessor;
import payroll.AssociateProfessor;
import payroll.Employee;
import payroll.Professor;
import payroll.Programmer;
public class Payslip {

```

```

public static void main(String[] args) {
Employee emp1;
AssistantProfessor asp1;
AssociateProfessor ap1;
Professor p1;
Programmer pro1;

emp1=new Employee("Roshh",300001,"Chennai","account@gmail.com",900000000001l);

asp1=new AssistantProfessor("Raja",600001,"Chennai","account@gmail.com",70000000001l,
500000.00);

ap1=new
AssociateProfessor("Moni",600001,"Chennai","account@gmail.com",4000000001l,200000.00);

p1=new Professor("Yogee",800001,"Chennai","account@gmail.com",40000000001l,30000.00);

pro1=new Programmer("Mari",800001,"Chennai","account@gmail.com",40000000001l,40000.00);

emp1.printEmployee();
asp1.printEmployee();
ap1.printEmployee();
p1.printEmployee();
pro1.printEmployee();
}

}
/*****
* program for pay slip generation
* created by Rositha V
* rosithav1@gmail.com
*/
package payroll;

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 no,double bp)
{
super(n,id,ad,mail,no);
Basic_Pay=bp;
}

public void printEmployee()
{
super.printEmployee();
}
}

```

```

}
{
double DA,HRA,PF,STAFFCLUBFUND,GROSSSALARY,NETSALARY,DEDUCTION;
DA=0.97*Basic_Pay;
HRA=0.1*Basic_Pay;
PF=0.12*Basic_Pay;
STAFFCLUBFUND=10*Basic_Pay;
DEDUCTION=PF+STAFFCLUBFUND;
GROSSSALARY=Basic_Pay+DA+HRA+PF+STAFFCLUBFUND;
NETSALARY=GROSSSALARY-DEDUCTION;

System.out.println("Basic_Pay:"+Basic_Pay);
System.out.println("GROSSSALARY:"+GROSSSALARY);
System.out.println("NETSALARY:"+NETSALARY);
}
}

/****
*program for pay slip generation
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*rosithav1@gmail.com
*/

package payroll;
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 no,double bp)
{
super(n,id,ad,mail,no);
Basic_Pay=bp;
}
public void printEmployee()
{
super.printEmployee();
double DA,HRA,PF,STAFFCLUBFUND,GROSSSALARY,NETSALARY,DEDUCTION;
DA=0.97*Basic_Pay;
HRA=0.1*Basic_Pay;
PF=0.12*Basic_Pay;
STAFFCLUBFUND=10*Basic_Pay;
DEDUCTION=PF+STAFFCLUBFUND;
GROSSSALARY=Basic_Pay+DA+HRA+PF+STAFFCLUBFUND;
NETSALARY=GROSSSALARY-DEDUCTION;

System.out.println("Basic_Pay:"+Basic_Pay);

```

```

System.out.println("GROSSSALARY:"+GROSSSALARY);
System.out.println("NETSALARY:"+NETSALARY);
}

}

/****
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*created by Rositha V
*rosithav1@gmail.com
*/
package payroll;

public class Employee {
protected String employeename;
protected long employee_id;
protected String address;
protected String mail_id;
protected long mobile_no;

public Employee()
super();{
employeename="noname";
employee_id=100001;
address="not given";
mail_id="not given";
mobile_no=80000001;
}
public Employee(String n,long id,String ad,String mail,long mo)
{
employeename=n;
employee_id=id;
address=ad;
mail_id=mail;
mobile_no=mo;
}
public void printEmployee()
{
System.out.println("Name:"+employeename);
System.out.println("Account ID:"+employee_id);
System.out.println("Address:"+address);
System.out.println("EMail:"+mail_id);
System.out.println("Mobile:"+mobile_no);
}

}

/****
*program for pay slip generation
*created by Rositha V
*rosithav1@gmail.com
*/

```

```

package payroll;

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 no,double bp)
{
super(n,id,ad,mail,no);
Basic_Pay=bp;
}
public void printEmployee()
{
super.printEmployee();
}
{
double DA,HRA,PF,STAFFCLUBFUND,GROSSSALARY,NETSALARY,DEDUCTION;
DA=0.97*Basic_Pay;
HRA=0.1*Basic_Pay;
PF=0.12*Basic_Pay;
STAFFCLUBFUND=10*Basic_Pay;
DEDUCTION=PF+STAFFCLUBFUND;
GROSSSALARY=Basic_Pay+DA+HRA+PF+STAFFCLUBFUND;
NETSALARY=GROSSSALARY-DEDUCTION;

System.out.println("Basic_Pay:"+Basic_Pay);
System.out.println("GROSSSALARY:"+GROSSSALARY);
System.out.println("NETSALARY:"+NETSALARY);

}
}

/****
*program for pay slip generation
*created by Rositha V
*rosithav1@gmail.com
*/
package payroll;

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 no,double bp)
{
super(n,id,ad,mail,no);
Basic_Pay=bp;
}
public void printEmployee()
{
super.printEmployee();
}
{
double DA,HRA,PF,STAFFCLUBFUND,GROSSSALARY,NETSALARY,DEDUCTION;
DA=0.97*Basic_Pay;
HRA=0.1*Basic_Pay;
PF=0.12*Basic_Pay;
STAFFCLUBFUND=10*Basic_Pay;
DEDUCTION=PF+STAFFCLUBFUND;
GROSSSALARY=Basic_Pay+DA+HRA+PF+STAFFCLUBFUND;
NETSALARY=GROSSSALARY-DEDUCTION;

System.out.println("Basic_Pay:"+Basic_Pay);
System.out.println("GROSSSALARY:"+GROSSSALARY);
System.out.println("NETSALARY:"+NETSALARY);
}
}

```

OUTPUT:

```

Basic_Pay:0.0
GROSSSALARY:0.0
NETSALARY:0.0
Basic_Pay:0.0
GROSSSALARY:0.0
NETSALARY:0.0
Basic_Pay:0.0
GROSSSALARY:0.0
NETSALARY:0.0
Name:Roshh
Account ID:300001
Address:Chennai
EMail:account@gmail.com
Mobile:900000000001
Name:Raja
Account ID:600001
Address:Chennai
EMail:account@gmail.com
Mobile:700000000001
Name:Moni
Account ID:600001
Address:Chennai
EMail:account@gmail.com
Mobile:4000000001
Basic_Pay:200000.0

```

GROSSSALARY:2438000.0
NETSALARY:414000.0
Name:Yogee
Account ID:800001
Address:Chennai
EMail:account@gmail.com
Mobile:4000000001
Name:Mari
Account ID:800001
Address:Chennai
EMail:account@gmail.com
Mobile:4000000001