EXPT: 3

DATE:23/07/2019

JAVA APPLICATION TO GENERATE PAY SLIP

AIM:

To develop a java application to generate a payslip for the employees with their net and gross salary.

REQUIREMENTS:

- To create a super class Employee with data members as,
 emp_name , emp_id , address , mail_id , molibe_no.
- To inherit the super class Employee in the subclasses ,
 Programmer ,AssistantProfessor ,AssociateProfessor , Professor.
- To create 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 as Staff club fund.
- Hence to generate the Payslip of Employee with their gross and net salary.

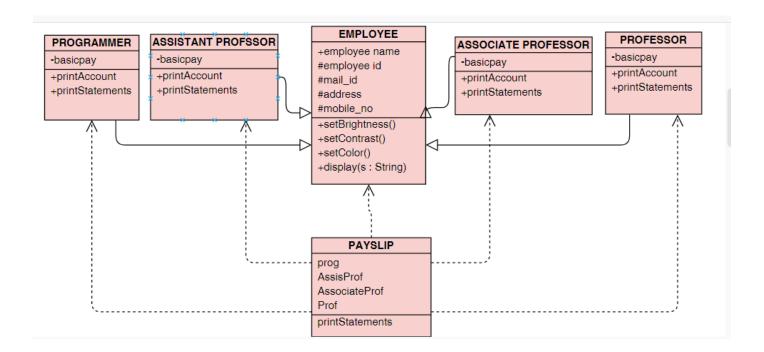
ALGORITHM:

- STEP 1: Create a package payroll containing the classes Payslip, Employee, Programmer, AssiatantProfessor, AssociateProfessor, Professor.
- STEP 2: Under the class Employee declare suitable attributes containing two constructors, one without parameter and other with parameter, print the required data.
- STEP 3: The class Employee is considered as the superclass for Programmer ,AssistantProfessor ,AssociateProfessor,Professor.
- STEP 4: Under the class Programmer, inherit the superclass so that it acts as a subclass of Employee, add Basicpay as new attribute to it.
- STEP 5: Under the class AssistantProfessor, inherit the superclass so that it acts as a subclass of Employee, add Basicpay as new attribute to it.
- STEP 6: Under the class AssociateProfessor, inherit the superclass so that it acts as a subclass of Employee, add Basicpay as new attribute to it.

STEP 7: Under the class Professor, inherit the superclass so that it acts as a subclass of Employee, add Basicpay as new attribute to it.

STEP 8: Under the Payslip class pass the constructor arguments and print the required result.

CLASS DIAGRAM:



PROGRAM:

```
//**PROGRAM TO GENERATE PAYSLIP **//
//**DEVELOPED BY HARIHARAN**//

package PAYROLL;
public class PaySlip
{
public static void main(String[]args)
{
Programmer Prog;
AssistantProfessor AssisProf;
```

```
AssociateProfessor AssocProf;
Professor Prof;
Prog=new
Programmer("hari",100000,"chennai","abc@gmail.com",(long) 200000,15000);
AssisProf=new
AssistantProfessor("xxx",200000,"coimbatore","def@gmail.com",(long) 300000,25000);
AssocProf=new
AssociateProfessor("yyy",300000,"kaniyakumari","ghi@gmail.com",(long) 400000,35000);
Prof=new Professor("zzz",400000,"erode","jkl@gmail.com",(long) 500000,45000);
Prog.printStatements();
AssisProf.printStatements();
AssocProf.printStatements();
Prof.printStatements();
package PAYROLL;
public class Employee
protected String emp_name;
protected int emp_id;
protected String address;
protected String mail id;
protected Long mobile_no;
public Employee()
emp name="abc";
emp_id=100001;
address="no address":
mail id="unavailable";
mobile no=90000000001;
public Employee(String n,int id,String ad,String mail,Long mob)
emp name=n;
emp_id=id;
address=ad:
mail_id=mail;
mobile_no=mob;
public void printAccount()
System.out.println("\nemployee's NAME :"+emp_name);
System.out.println("employee's ID:"+emp_id);
System.out.println("employee's ADDRESS:"+address);
System.out.println("employee's E-MAIL ID:"+mail id);
System.out.println("employee's MOBILE NO.:"+mobile no);
```

```
package PAYROLL;
public class Programmer extends Employee
private double basicpay;
public Programmer()
basicpay=0;
public Programmer(String n,int id,String ad,String mail,Long mob,int bp)
super(n,id,ad,mail,mob);
basicpay=bp;
public void printAccount()
super.printAccount();
System.out.println("BASIC PAY:"+basicpay);
public void printStatements()
double da;
double hra:
double pf;
double staff;
double gross;
double net;
printAccount();
da=basicpay*0.97;
hra=basicpay*0.1;
pf=basicpay*0.12;
staff=basicpay*0.001;
gross=da+hra+pf+staff;
net=gross-pf-staff;
System.out.println("employee's DA:"+da);
System.out.println("employee's HRA :"+hra);
System.out.println("employee's PF :"+pf);
System.out.println("employee's STAFF CLUBFUND :"+staff);
System.out.println("employee's GROSS SALARY:"+gross);
System.out.println("employee's NET SALARY:"+net);
package PAYROLL;
public class AssistantProfessor extends Employee
private double basicpay;
public AssistantProfessor()
basicpay=0;
```

```
public AssistantProfessor(String n,int id,String ad,String mail,Long mob,int bp)
super(n,id,ad,mail,mob);
basicpay=bp;
public void printAccount()
super.printAccount();
System.out.println("BASIC PAY:"+basicpay);
public void printStatements()
double da;
double hra;
double pf;
double staff;
double gross;
double net;
printAccount();
da=basicpay*0.97;
hra=basicpay*0.1;
pf=basicpay*0.12;
staff=basicpay*0.001;
gross=da+hra+pf+staff;
net=gross-pf-staff;
System.out.println("employee's DA:"+da);
System.out.println("employee's HRA:"+hra);
System.out.println("employee's PF:"+pf);
System.out.println("employee's STAFF CLUBFUND:"+staff);
System.out.println("employee's GROSS SALARY:"+gross);
System.out.println("employee's NET SALARY:"+net);
package PAYROLL;
public class AssociateProfessor extends Employee
private double basicpay;
public AssociateProfessor()
basicpay=0;
public AssociateProfessor(String n,int id,String ad,String mail,Long mob,int bp)
super(n,id,ad,mail,mob);
basicpay=bp;
public void printAccount()
```

```
super.printAccount();
System.out.println("BASIC PAY:"+basicpay);
public void printStatements()
double da;
double hra;
double pf;
double staff;
double gross;
double net;
printAccount();
da=basicpay*0.97;
hra=basicpay*0.1;
pf=basicpay*0.12;
staff=basicpay*0.001;
gross=da+hra+pf+staff;
net=gross-pf-staff;
System.out.println("employee's DA:"+da);
System.out.println("employee's HRA :"+hra);
System.out.println("employee's PF :"+pf);
System.out.println("employee's STAFF CLUBFUND :"+staff);
System.out.println("employee's GROSS SALARY:"+gross);
System.out.println("employee's NET SALARY:"+net);
package PAYROLL;
public class Professor extends Employee
private double basicpay;
public Professor()
basicpay=0;
public Professor(String n,int id,String ad,String mail,Long mob,int bp)
super(n,id,ad,mail,mob);
basicpay=bp;
public void printAccount()
super.printAccount();
System.out.println("BASIC PAY:"+basicpay);
public void printStatements()
double da:
```

```
double hra;
double pf;
double staff;
double gross;
double net;
printAccount();
da=basicpay*0.97;
hra=basicpay*0.1;
pf=basicpay*0.12;
staff=basicpay*0.001;
gross=da+hra+pf+staff;
net=gross-pf-staff;
System.out.println("employee's DA:"+da);
System.out.println("employee's HRA :"+hra);
System.out.println("employee's PF:"+pf);
System.out.println("employee's STAFF CLUBFUND:"+staff);
System.out.println("employee's GROSS SALARY:"+gross);
System.out.println("employee's NET SALARY:"+net);
}
```

OUTPUT:

employee's NAME: hari employee's ID: 100000 employee's ADDRESS: chennai employee's E-MAIL ID: abc@gmail.com employee's MOBILE NO.: 200000 BASIC PAY: 15000.0 employee's DA: 14550.0 employee's HRA: 1500.0 employee's PF: 1800.0 employee's STAFF CLUBFUND: 15.0 employee's GROSS SALARY: 17865.0 **NET SALARY: 16050.0** employee's NAME: xxx employee's ID: 200000 employee's ADDRESS: coimbatore employee's E-MAIL ID: def@gmail.com employee's MOBILE NO.: 300000 BASIC PAY: 25000.0 employee's DA: 24250.0 employee's HRA: 2500.0 employee's PF: 3000.0 employee's STAFF CLUBFUND: 25.0 employee's GROSS SALARY: 29775.0

NET SALARY: 26750.0

employee's NAME: yyy employee's ID: 300000

employee's ADDRESS: kaniyakumari employee's E-MAIL ID : ghi@gmail.com

employee's MOBILE NO.: 400000

BASIC PAY: 35000.0 employee's DA: 33950.0 employee's HRA: 3500.0 employee's PF: 4200.0

employee's STAFF CLUBFUND: 35.0 employee's GROSS SALARY: 41685.0

NET SALARY: 37450.0

employee's NAME : zzz employee's ID: 400000

employee's ADDRESS: erode

employee's E-MAIL ID : jkl@gmail.com employee's MOBILE NO.: 500000

BASIC PAY: 45000.0 employee's DA: 43650.0 employee's HRA: 4500.0 employee's PF: 5400.0

employee's STAFF CLUBFUND: 45.0 employee's GROSS SALARY: 53595.0

NET SALARY: 48150.0

RESULT:

Hence a java application was created and executed to generate a payslip.