3. 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 Basic Pay (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.

**PROGRAM**

import java.util.\*;

class employee

{

int empid;

long mobile;

String name, address, mailid;

Scanner get = new Scanner(System.in);

void getdata()

{

System.out.println("Enter Name of the Employee");

name = get.nextLine();

System.out.println("Enter Mail id");

mailid = get.nextLine();

System.out.println("Enter Address of the Employee:");

address = get.nextLine();

System.out.println("Enter employee id ");

empid = get.nextInt();

System.out.println("Enter Mobile Number");

mobile = get.nextLong();

}

void display()

{

System.out.println("Employee Name: "+name);

System.out.println("Employee id : "+empid);

System.out.println("Mail id : "+mailid);

System.out.println("Address: "+address);

System.out.println("Mobile Number: "+mobile);

}

}

class programmer extends employee

{

double salary,bp,da,hra,pf,club,net,gross;

void getprogrammer()

{

System.out.println("Enter basic pay");

bp = get.nextDouble();

}

void calculateprog()

{

da=(0.97\*bp);

hra=(0.10\*bp);

pf=(0.12\*bp);

club=(0.01\*bp);

gross=(bp+da+hra);

net=(gross-pf-club);

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("PAY SLIP FOR PROGRAMMER");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("Basic Pay:Rs"+bp);

System.out.println("DA:Rs"+da);

System.out.println("PF:Rs"+pf);

System.out.println("HRA:Rs"+hra);

System.out.println("CLUB:Rs"+club);

System.out.println("GROSS PAY:Rs"+gross);

System.out.println("NET PAY:Rs"+net);

}

}

class asstprofessor extends employee

{

double salary,bp,da,hra,pf,club,net,gross;

void getasst()

{

System.out.println("Enter basic pay");

bp = get.nextDouble();

}

void calculateasst()

{

da=(0.97\*bp);

hra=(0.10\*bp);

pf=(0.12\*bp);

club=(0.01\*bp);

gross=(bp+da+hra);

net=(gross-pf-club);

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("PAY SLIP FOR ASSISTANT PROFESSOR");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("Basic Pay:Rs"+bp);

System.out.println("DA:Rs"+da);

System.out.println("HRA:Rs"+hra);

System.out.println("PF:Rs"+pf);

System.out.println("CLUB:Rs"+club);

System.out.println("GROSS PAY:Rs"+gross);

System.out.println("NET PAY:Rs"+net);

}

}

class associateprofessor extends employee

{

double salary,bp,da,hra,pf,club,net,gross;

void getassociate()

{

System.out.println("Enter basic pay");

bp = get.nextDouble();

}

void calculateassociate()

{

da=(0.97\*bp);

hra=(0.10\*bp);

pf=(0.12\*bp);

club=(0.01\*bp);

gross=(bp+da+hra);

net=(gross-pf-club);

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("PAY SLIP FOR ASSOCIATE PROFESSOR");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("Basic Pay:Rs"+bp);

System.out.println("DA:Rs"+da);

System.out.println("HRA:Rs"+hra);

System.out.println("PF:Rs"+pf);

System.out.println("CLUB:Rs"+club);

System.out.println("GROSS PAY:Rs"+gross);

System.out.println("NET PAY:Rs"+net);

}

}

class professor extends employee

{

double salary,bp,da,hra,pf,club,net,gross;

void getprofessor()

{

System.out.println("Enter basic pay");

bp = get.nextDouble();

}

void calculateprofessor()

{

da=(0.97\*bp);

hra=(0.10\*bp);

pf=(0.12\*bp);

club=(0.01\*bp);

gross=(bp+da+hra);

net=(gross-pf-club);

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("PAY SLIP FOR PROFESSOR");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("Basic Pay:Rs"+bp);

System.out.println("DA:Rs"+da);

System.out.println("HRA:Rs"+hra);

System.out.println("PF:Rs"+pf);

System.out.println("CLUB:Rs"+club);

System.out.println("GROSS PAY:Rs"+gross);

System.out.println("NET PAY:Rs"+net);

}

}

class salary

{

public static void main(String args[])

{

int choice,cont;

do

{

System.out.println("PAYROLL");

System.out.println(" 1.PROGRAMMER \t 2.ASSISTANT PROFESSOR \t 3.ASSOCIATE

PROFESSOR \t 4.PROFESSOR ");

Scanner c = new Scanner(System.in);

choice=c.nextInt();

switch(choice)

{

case 1:

{

programmer p=new programmer();

p.getdata();

p.getprogrammer();

p.display();

p.calculateprog();

break;

}

case 2:

{

asstprofessor asst=new asstprofessor();

asst.getdata();

asst.getasst();

asst.display();

asst.calculateasst();

break;

}

case 3:

{

associateprofessor asso=new associateprofessor();

asso.getdata();

asso.getassociate();

asso.display();

asso.calculateassociate();

break;

}

case 4:

{

professor prof=new professor();

prof.getdata();

prof.getprofessor();

prof.display();

prof.calculateprofessor();

break;

}

}

System.out.println("Do u want to continue 0 to quit and 1 to continue ");

cont=c.nextInt();

}while(cont==1);

}

}

**OUTPUT**

