**Code:**

class Employee {

int id;

String name;

String desgn;

int years\_of\_exp;

double basicPay, DA, HRA, LIC, PF;

String lic\_opt;

int hours\_worked;

double grossPay, deductions, netPay;

//function to get employee's data

void getData(int no, String n, String dn, int yoe, String opt, int hw) {

id=no;

name=n;

desgn=dn;

years\_of\_exp=yoe;

lic\_opt=opt;

hours\_worked=hw;

}

//function to display the employee's details

void display() {

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

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

System.out.println("Designation: "+desgn);

System.out.println("Years of experience: "+years\_of\_exp);

System.out.println("Basic pay: "+basicPay);

System.out.println("No. of hours worked: "+hours\_worked);

System.out.println("Gross salary: "+grossPay);

System.out.println("Net salary: "+netPay+"\n");

}

//function to calculate gross pay of employee

void calc\_grossPay() {

if (desgn=="Intern") {

basicPay=200;

DA=2000;

HRA=1000;

PF=500;

grossPay = (hours\_worked\*basicPay)+DA+HRA;

}

else if (desgn=="Manager") {

basicPay=30000;

DA=0.4\*basicPay;

HRA=0.1\*basicPay;

PF=0.08\*basicPay;

if (lic\_opt=="y")

LIC=2000;

else

LIC=0;

grossPay = basicPay+DA+HRA;

}

else if (desgn=="Trainee" || desgn=="Analyst" || desgn=="Software engineer" || desgn=="TeamLead") {

basicPay=28000;

DA=0.3\*basicPay;

HRA=0.1\*basicPay;

PF=0.08\*basicPay;

if (lic\_opt=="y")

LIC=1600;

else

LIC=0;

grossPay = basicPay+DA+HRA;

}

}

//function to calculate net pay of employee

void calc\_netPay() {

calc\_grossPay();

deductions = LIC+PF;

netPay = grossPay-deductions;

}

//function to promote an employee based on years of experience

void promote() {

System.out.println("Current employee details:");

display();

int flag=0;

if (desgn=="Intern" && years\_of\_exp>=2) {

desgn="Trainee";

flag=1;

}

else if ((desgn=="Trainee" || desgn=="Analyst" || desgn=="Software engineer" || desgn=="TeamLead") && years\_of\_exp>=7) {

desgn="Manager";

flag=1;

}

else if (desgn=="Manager" && years\_of\_exp>=12) {

System.out.println("Targeted for promotion. New designation to be assigned soon.");

}

else {

System.out.println("Employee does not have required years of experience. Promotion denied.");

}

if (flag==1) {

System.out.println("Promoted! New payslip of employee:");

calc\_netPay();

display();

}

}

}

class EmpSalary {

public static void main (String a[]) {

int n=3, eID;

//declaring array of employees

Employee[] arr;

arr = new Employee[n];

//Employee 1

arr[0] = new Employee();

arr[0].getData(101,"Mukund","Manager",13,"y",160);

arr[0].calc\_netPay();

//Employee 2

arr[1] = new Employee();

arr[1].getData(102,"Deepa","Intern",2,"n",60);

arr[1].calc\_netPay();

//Employee 3

arr[2] = new Employee();

arr[2].getData(103,"Connor","Analyst",9,"y",160);

arr[2].calc\_netPay();

/\*for (int i=0; i<arr.length; i++) {

arr[i] = new Employee();

arr[i].getData(101,"Mukund","Manager",13,30000,2000,160); //note: get user input later

arr[i].calc\_netPay();

arr[i].display();

}

}\*/ //to use late for user input employee data

//to display payroll of all employees

System.out.println("Payroll of employees:\n");

for (int i=0; i<arr.length; i++) {

arr[i].display();

}

//to display the payslip of a particular employee

System.out.println("Displaying payslip of particular employee with ID=103...");

eID = 103; //get as user input later

for (int i=0; i<arr.length; i++) {

if (arr[i].id == eID)

arr[i].display();

}

//to promote a particular employee

System.out.println("Granting promotion to a particular employee after checking for reqd no. of years of experience...");

eID = 102; //get as user input later

for (int i=0; i<arr.length; i++) {

if (arr[i].id == eID)

arr[i].promote();

}

}

}

**Output:**



