

P1)

```
import java.util.Scanner;
```

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        Scanner input = new Scanner(System.in);
```

```
        Employee e1 = new
```

```
Employee(input.nextInt(),input.next(),input.nextInt(),input.nextDouble(),input.nextDouble(),input.nextDouble(),input.nextDouble());
```

```
        Employee e2 = new
```

```
Employee(input.nextInt(),input.next(),input.nextInt(),input.nextDouble(),input.nextDouble(),input.nextDouble(),input.nextDouble());
```

```
        Employee e3 = new
```

```
Employee(input.nextInt(),input.next(),input.nextInt(),input.nextDouble(),input.nextDouble(),input.nextDouble(),input.nextDouble());
```

```
        System.out.println(e1);
```

```
        System.out.println(e2);
```

```
        System.out.println(e3);
```

```
    }
```

```
}
```

```
class Employee{
```

```
    private int id;
```

```
    private String name;
```

```
    private int hrs;
```

```
    private double basic;
```

```
    private double da;
```

```
    private double hra;
```

```
private double it;
```

```
private double gross;
```

```
Employee(int id, String name, int hrs, double basic, double da, double hra, double it) {
```

```
    this.id = id;
```

```
    this.name = name;
```

```
    this.hrs = hrs;
```

```
    this.basic = basic;
```

```
    this.da = da/100;
```

```
    this.hra = hra/100;
```

```
    this.it = it/100;
```

```
}
```

```
public int getId(){
```

```
    return id;
```

```
}
```

```
public String getName(){
```

```
    return name;
```

```
}
```

```
public int getHrs(){
```

```
    return hrs;
```

```
}
```

```
public double getBasic(){
```

```
    return basic;
```

```
}
```

```
public double getDa(){
```

```
        return da;
    }
```

```
    public double getHra() {
        return hra;
    }
```

```
    public double getIt() {
        return it;
    }
```

```
    public double getGross() {
        return gross;
    }
```

```
    public double calSalary() {
        this.gross=basic+(basic*hra)+(basic*da)-(basic*it);
        if(this.hrs==200) {
            return getGross();
        }else if(this.hrs>200) {
            return getGross()+((this.hrs-200)*100);
        }else {
            return getGross()-((200-this.hrs)*100);
        }
    }
```

```
    public String toString() {
        return "Name: "+getName()+"\nID: "+getId()+"\nNo. of hrs: "+getHrs()+"\nGross Salary: "+calSalary()+"\n";
    }
```

```
}
```

```
Name: ravi
ID: 12
No. of hrs: 205
Gross Salary: 55085.225

Name: sham
ID: 12
No. of hrs: 222
Gross Salary: 24519.842999999997

Name: bham
ID: 12
No. of hrs: 256
Gross Salary: 30423.363999999998

...Program finished with exit code 0
Press ENTER to exit console. 
```

P2)

```
import
java.util.Scanner;

public class W3EP2 {
    public static void main(String[] args) {
        Scanner input= new Scanner(System.in);
        Age a1 = new Age(input.next(),input.nextInt(),input.nextInt());
        Age a2 = new Age(input.next(),input.nextInt(),input.nextInt());
        a1.calAge(a2);
        input.close();
    }
}

class Age{
    private String Name;
    private int month;
    private int year;
    Age(String name,int month,int year){
        this.Name=name;
        this.month=month;
        this.year=year;
    }
    public void calAge(Age a) {
```

```

        if(this.year<a.year) {
            if(this.year-a.year==1)
                System.out.println(this.Name+" is older by "+(a.year-
this.year)+" year");
            else
                System.out.println(this.Name+" is older by "+(a.year-
this.year)+" years");
        }else if(this.year>a.year) {
            if(this.year-a.year==1)
                System.out.println(a.Name+" is older by "+(this.year-
a.year)+" year");
            else
                System.out.println(a.Name+" is older by "+(this.year-
a.year)+" years");
        }else if(this.year==a.year&&this.month>a.month) {
            if((a.month-this.month)==-1)
                System.out.println(a.Name+" is older by "+(this.month-
a.month)+" month");
            else
                System.out.println(a.Name+" is older by "+(this.month-
a.month)+" months");
        }else if(this.year==a.year&&this.month<a.month) {
            if((a.month-this.month)==1)
                System.out.println(this.Name+" is older by "+(a.month-
this.month)+" month");
            else
                System.out.println(this.Name+" is older by "+(a.month-
this.month)+" months");
        }else {
            System.out.println(this.Name+" and "+a.Name+" are of same
age");
        }
    }
}

```

```

sham
03
2001
bham
04
2002
sham is older by 1 year

```

```

...Program finished with exit code 0
Press ENTER to exit console.

```