

M. IBNU LUTHFI AZHAR

200401067

TI-B2

## Latihan

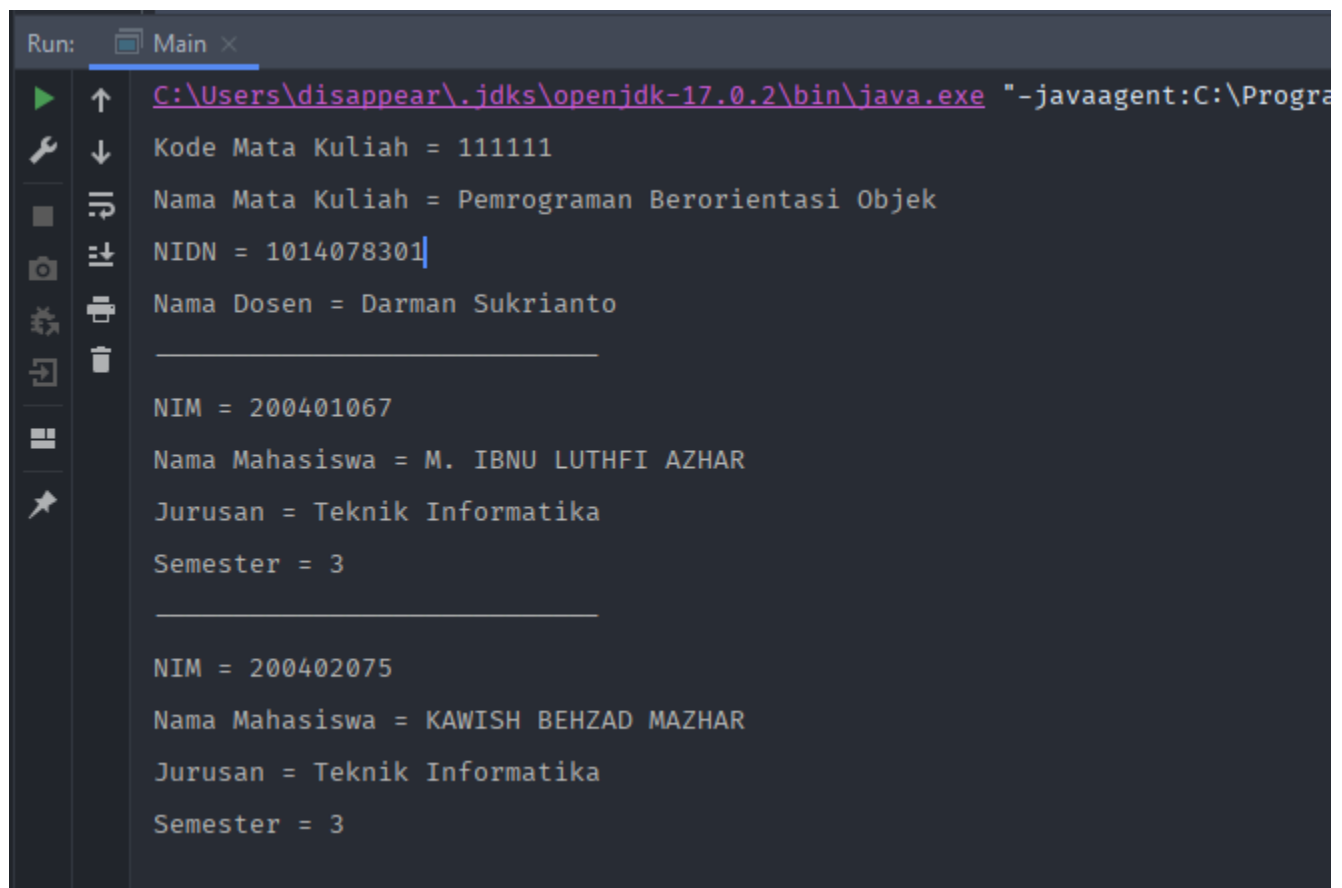
```
1 package com.company;
2
3 class Jadwal {
4     private String kodeMataKuliah;
5     private String namaMataKuliah;
6     protected String semester;
7
8     public void SetJadwal(String paramKodeMataKuliah, String paramNamaMataKuliah){
9         kodeMataKuliah = paramKodeMataKuliah;
10        namaMataKuliah = paramNamaMataKuliah;
11
12        System.out.println("Kode Mata Kuliah = " + kodeMataKuliah);
13        System.out.println("Nama Mata Kuliah = " + namaMataKuliah);
14    }
15 }
16
17 class Dosen extends Jadwal {
18     String nidn, namaDosen;
19
20     void Display(String paramNidn, String paramNamaDosen){
21         nidn = paramNidn;
22         namaDosen = paramNamaDosen;
23
24         System.out.println("NIDN = " + nidn);
25         System.out.println("Nama Dosen = " + namaDosen);
26     }
27 }
28
29 class Mahasiswa extends Jadwal {
30     String nim, namaMahasiswa, jurusan;
31
32     void Display(){
33         System.out.println("NIM = " + nim);
34         System.out.println("Nama Mahasiswa = " + namaMahasiswa);
35         System.out.println("Jurusan = " + jurusan);
36         System.out.println("Semester = " + semester);
37     }
38 }
39
40 public class Main {
41
42     public static void main(String[] args) {
43         Dosen dosen = new Dosen();
44         dosen.SetJadwal("111111", "Pemrograman Berorientasi Objek");
45         dosen.Display("1014078301", "Darman Sukrianto");
```

```

47     System.out.println("-----");
48
49     Mahasiswa mahasiswa1 = new Mahasiswa();
50     mahasiswa1.nim = "200401067";
51     mahasiswa1.namaMahasiswa = "M. IBNU LUTHFI AZHAR";
52     mahasiswa1.semester = "3";
53     mahasiswa1.jurusan = "Teknik Informatika";
54     mahasiswa1.Display();
55
56     System.out.println("-----");
57
58     Mahasiswa mahasiswa2 = new Mahasiswa();
59     mahasiswa2.nim = "200402075";
60     mahasiswa2.namaMahasiswa = "KAWISH BEHZAD MAZHAR";
61     mahasiswa2.semester = "3";
62     mahasiswa2.jurusan = "Teknik Informatika";
63     mahasiswa2.Display();
64 }
65 }
66

```

Hasil output



```

Run: Main x
C:\Users\disappear\.jdk\openjdk-17.0.2\bin\java.exe "-javaagent:C:\Progra
Kode Mata Kuliah = 111111
Nama Mata Kuliah = Pemrograman Berorientasi Objek
NIDN = 1014078301
Nama Dosen = Darman Sukrianto
-----
NIM = 200401067
Nama Mahasiswa = M. IBNU LUTHFI AZHAR
Jurusan = Teknik Informatika
Semester = 3
-----
NIM = 200402075
Nama Mahasiswa = KAWISH BEHZAD MAZHAR
Jurusan = Teknik Informatika
Semester = 3

```

## Tugas

Buat program kepegawaian untuk menghitung gaji pegawai (NIP, Nama, Divisi, Gapok, Jumlah Hari Kerja, Uang Makan, Uang Transport) dengan menerapkan konsep inheritance dan modifier. Dengan ketentuan sebagai berikut :

- Pegawai (Super Class)
- Direktur (Sub Class)
- Manajer (Sub class)

Rumus hitung gaji :  $\text{Gaji total} = \text{Gapok} + \text{Uang Makan} + \text{Uang Transfortasi}$ .

```
1 package com.company;
2
3 class Employee067 {
4     protected String nip, name, division;
5     protected int mainSalary, totalWorkDay, transportationMoneyPerDay, lunchMoneyPerDay;
6
7     private int GetFinalSalary067() {
8         return mainSalary
9             + (transportationMoneyPerDay * totalWorkDay)
10            + (lunchMoneyPerDay * totalWorkDay);
11    }
12
13    protected void Display067() {
14        System.out.println("NIP: " + nip);
15        System.out.println("Name: " + name);
16        System.out.println("Division: " + division);
17        System.out.println("Final salary: " + GetFinalSalary067());
18    }
19 }
20
21 class Director067 extends Employee067 {
22     String[] schedules;
23
24     public void GetSchedules067() {
25         System.out.println("List schedules: ");
26         for (String schedule : schedules) {
27             System.out.println(schedule);
28         }
29    }
30 }
31
32 class Manager067 extends Employee067 {
33     String[] todos;
34
35     public void GetSchedules067() {
36         System.out.println("List todo: ");
37         for (String todo : todos) {
38             System.out.println(todo);
39         }
40    }
41 }
42
```

```

43
44 public class Main {
45
46     public static void main(String[] args) {
47         Director067 director = new Director067();
48         director.nip = "111111";
49         director.name = "M. IBNU LUTHFI AZHAR";
50         director.division = "IT";
51         director.mainSalary = 15000000;
52         director.totalWorkDay = (5 * 4);
53         director.lunchMoneyPerDay = 45000;
54         director.transportationMoneyPerDay = 30000;
55         director.schedules = new String[] {
56             "Discuss company future",
57             "Meet board directors"
58         };
59         director.Display067();
60         director.GetSchedules067();
61
62         System.out.println("-----");
63
64         Manager067 manager = new Manager067();
65         manager.nip = "222222";
66         manager.name = "FULAN D";
67         manager.division = "Sales";
68         manager.mainSalary = 7000000;
69         manager.totalWorkDay = (6 * 4);
70         manager.lunchMoneyPerDay = 45000;
71         manager.transportationMoneyPerDay = 30000;
72         manager.todos = new String[] {
73             "Weekly reports",
74             "Bring chocolate"
75         };
76         manager.Display067();
77         manager.GetSchedules067();
78     }
79 }
80

```

## Hasil output

```

Run: Main x
C:\Users\disappear\.jdk\openjdk-17.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\jdk-17.0.2\lib\jconsole.jar" -Djava.awt.headless=true -Djava.class.path=C:\Program Files\Java\jdk-17.0.2\lib\jconsole.jar -Djava.class.path=C:\Program Files\Java\jdk-17.0.2\lib\jconsole.jar -Djava.class.path=C:\Program Files\Java\jdk-17.0.2\lib\jconsole.jar
NIP: 111111
Name: M. IBNU LUTHFI AZHAR
Division: IT
Final salary: 16500000
List schedules:
Discuss company future
Meet board directors
-----
NIP: 222222
Name: FULAN D
Division: Sales
Final salary: 8800000
List todo:
Weekly reports
Bring chocolate
Process finished with exit code 0

```