

**PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK**

**MODUL 7**

**ENCAPSULATION**



**DISUSUN OLEH:**

**NAMA : BIMA TRIADMAJA**

**NIM : L200210137**

**KELAS : E**

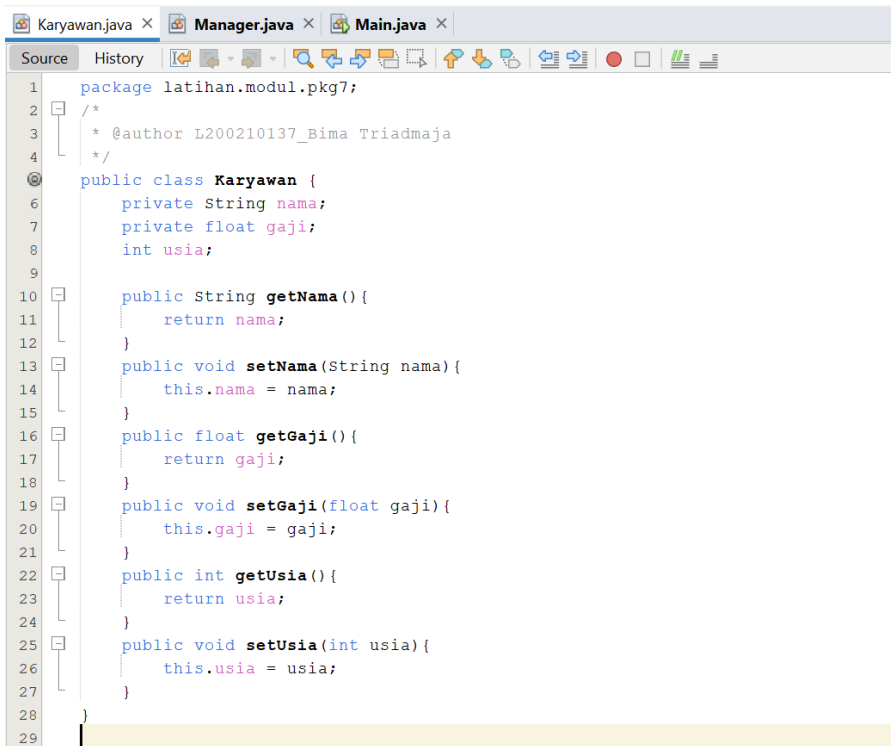
**PROGRAM STUDI TEKNIK INFORMATIKA  
FAKULTAS KOMUNIKASI DAN INFORMATIKA  
UNIVERSITAS MUHAMMADIYAH SURAKARTA  
TAHUN 2022/2023**

## 7.2. LATIHAN

1. Buatlah class dengan fungsi `main()` dan 5 objek berbeda yang dihasilkan dari class `Manager`. Kemudian melalui object tersebut tampilkan nilai private variable dari class `Manager` dan class `Karyawan`.
2. Tambahkan setter pada class `Manager` untuk memodifikasi nilai baru `jamKerja` menjadi 8.5!

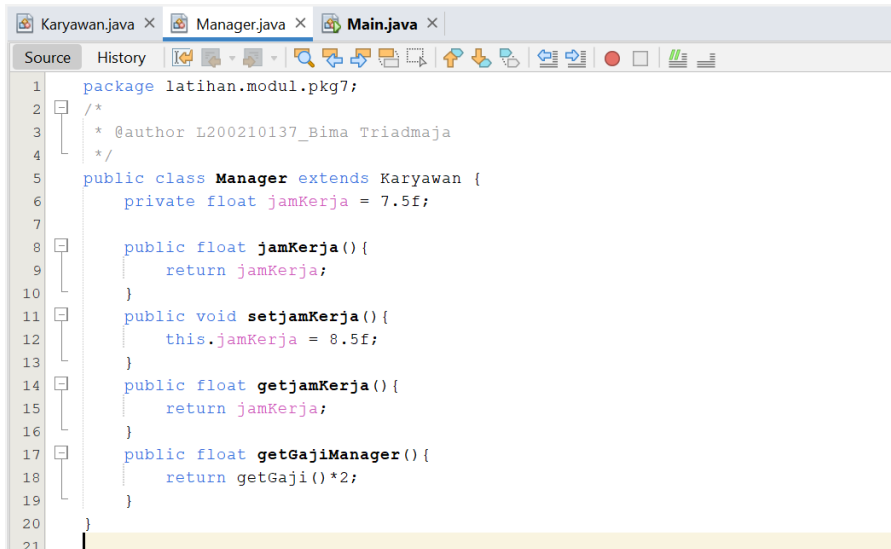
### JAWAB :

Screenshot dari class `Karyawan` :



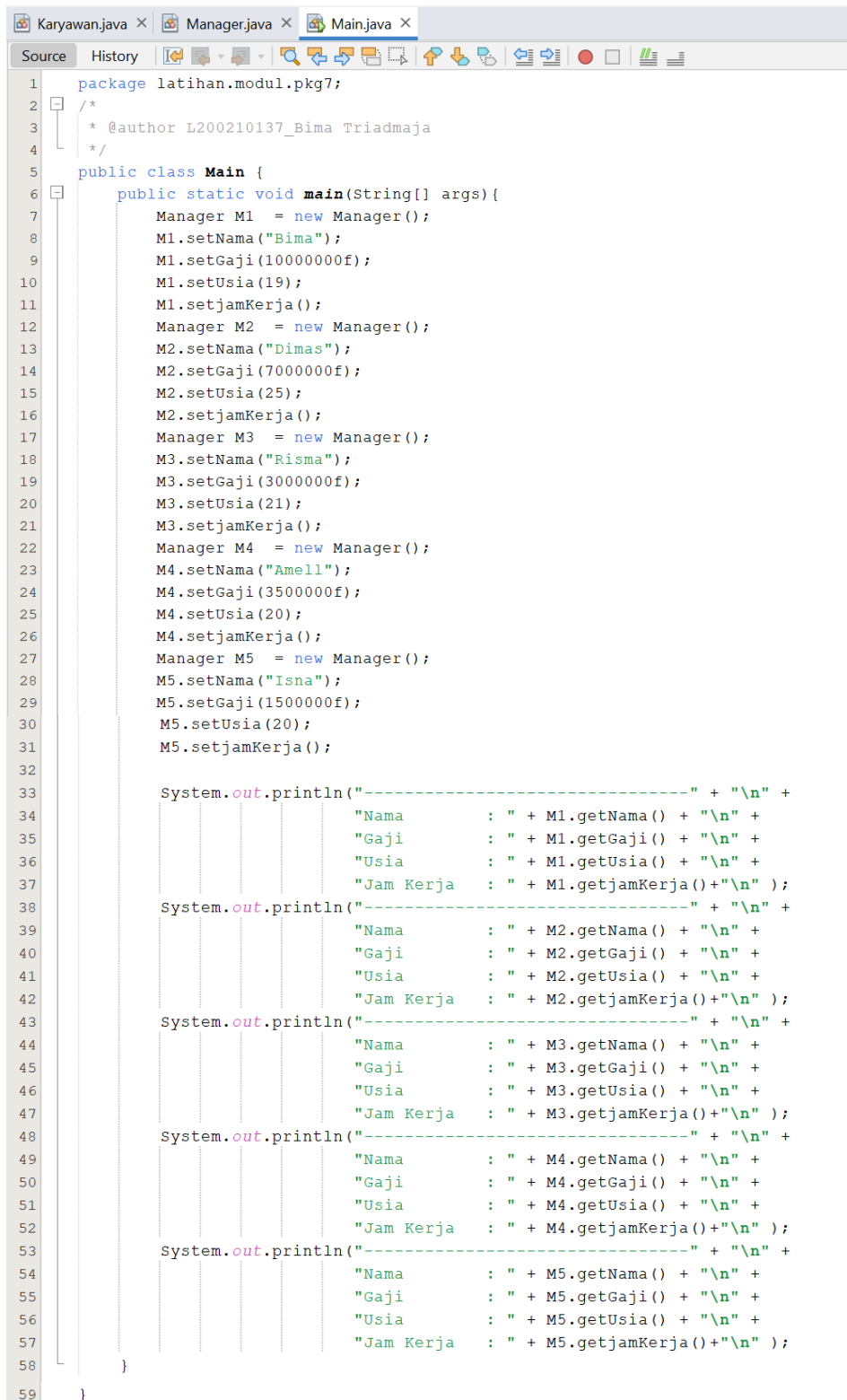
```
1 package latihan.modul.pkg7;
2
3 /*
4  * @author L200210137_Bima Triadmaja
5  */
6
7 public class Karyawan {
8     private String nama;
9     private float gaji;
10    int usia;
11
12    public String getNama(){
13        return nama;
14    }
15    public void setNama(String nama){
16        this.nama = nama;
17    }
18    public float getGaji(){
19        return gaji;
20    }
21    public void setGaji(float gaji){
22        this.gaji = gaji;
23    }
24    public int getUsia(){
25        return usia;
26    }
27    public void setUsia(int usia){
28        this.usia = usia;
29    }
30 }
```

Screenshot dari class `Manager` :



```
1 package latihan.modul.pkg7;
2
3 /*
4  * @author L200210137_Bima Triadmaja
5  */
6
7 public class Manager extends Karyawan {
8     private float jamKerja = 7.5f;
9
10    public float jamKerja(){
11        return jamKerja;
12    }
13    public void setjamKerja(){
14        this.jamKerja = 8.5f;
15    }
16    public float getjamKerja(){
17        return jamKerja;
18    }
19    public float getGajiManager(){
20        return getGaji()*2;
21    }
22 }
```

Screenshot dari mainclass Main dan Output nya :



```
1 package latihan.modul.pkg7;
2
3 /*
4  * @author L200210137_Bima Triadmaja
5  */
6 public class Main {
7     public static void main(String[] args){
8         Manager M1 = new Manager();
9         M1.setNama("Bima");
10        M1.setGaji(10000000f);
11        M1.setUsia(19);
12        M1.setjamKerja();
13        Manager M2 = new Manager();
14        M2.setNama("Dimas");
15        M2.setGaji(7000000f);
16        M2.setUsia(25);
17        M2.setjamKerja();
18        Manager M3 = new Manager();
19        M3.setNama("Risma");
20        M3.setGaji(3000000f);
21        M3.setUsia(21);
22        M3.setjamKerja();
23        Manager M4 = new Manager();
24        M4.setNama("Amell");
25        M4.setGaji(3500000f);
26        M4.setUsia(20);
27        M4.setjamKerja();
28        Manager M5 = new Manager();
29        M5.setNama("Isna");
30        M5.setGaji(1500000f);
31        M5.setUsia(20);
32        M5.setjamKerja();
33
34        System.out.println("-----" + "\n" +
35            "Nama      : " + M1.getNama() + "\n" +
36            "Gaji       : " + M1.getGaji() + "\n" +
37            "Usia       : " + M1.getUsia() + "\n" +
38            "Jam Kerja  : " + M1.getjamKerja()+"\n" );
39        System.out.println("-----" + "\n" +
40            "Nama      : " + M2.getNama() + "\n" +
41            "Gaji       : " + M2.getGaji() + "\n" +
42            "Usia       : " + M2.getUsia() + "\n" +
43            "Jam Kerja  : " + M2.getjamKerja()+"\n" );
44        System.out.println("-----" + "\n" +
45            "Nama      : " + M3.getNama() + "\n" +
46            "Gaji       : " + M3.getGaji() + "\n" +
47            "Usia       : " + M3.getUsia() + "\n" +
48            "Jam Kerja  : " + M3.getjamKerja()+"\n" );
49        System.out.println("-----" + "\n" +
50            "Nama      : " + M4.getNama() + "\n" +
51            "Gaji       : " + M4.getGaji() + "\n" +
52            "Usia       : " + M4.getUsia() + "\n" +
53            "Jam Kerja  : " + M4.getjamKerja()+"\n" );
54        System.out.println("-----" + "\n" +
55            "Nama      : " + M5.getNama() + "\n" +
56            "Gaji       : " + M5.getGaji() + "\n" +
57            "Usia       : " + M5.getUsia() + "\n" +
58            "Jam Kerja  : " + M5.getjamKerja()+"\n" );
59    }
```

## Output - Latihan Modul 7 (run) X



run:



```
-----  
Nama      : Bima  
Gaji      : 1.0E7  
Usia      : 19  
Jam Kerja : 8.5  
  
-----
```

```
Nama      : Dimas  
Gaji      : 7000000.0  
Usia      : 25  
Jam Kerja : 8.5  
  
-----
```

```
Nama      : Risma  
Gaji      : 3000000.0  
Usia      : 21  
Jam Kerja : 8.5  
  
-----
```

```
Nama      : Amell  
Gaji      : 3500000.0  
Usia      : 20  
Jam Kerja : 8.5  
  
-----
```

```
Nama      : Isna  
Gaji      : 1500000.0  
Usia      : 20  
Jam Kerja : 8.5
```

BUILD SUCCESSFUL (total time: 0 seconds)