

**OBJECT ORIENTED PROGRAMMING WORK
MODULE 7**



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INFORMATICS STUDY PROGRAM

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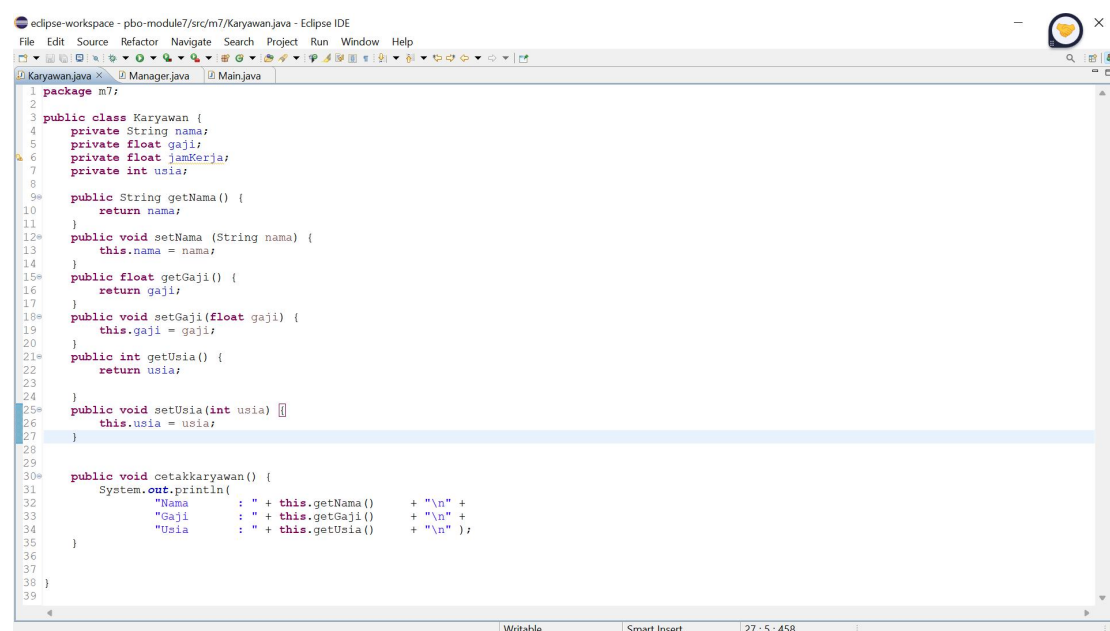
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Exercise 7.2

1. Create a class with the main() function and 5 different objects generated from the Class Manager. Then through the object, displays the value of the private variables from the Manager class and the Employee class.
2. Added a setter in the Manager class to modify the new value of Workhours to 8.5.

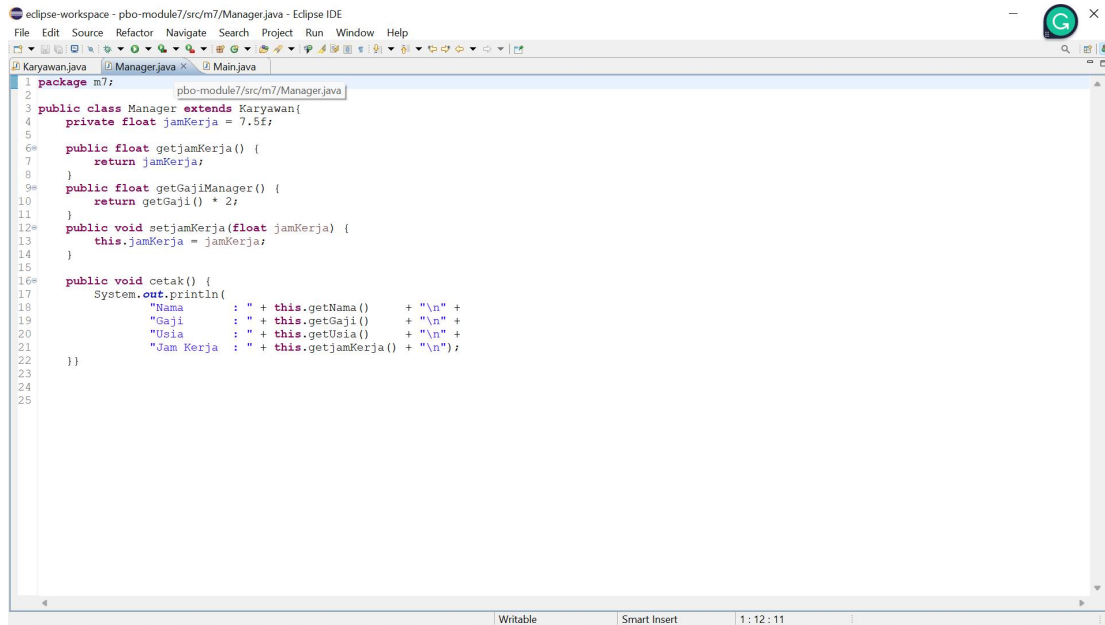
Source Code :

1. Karyawan



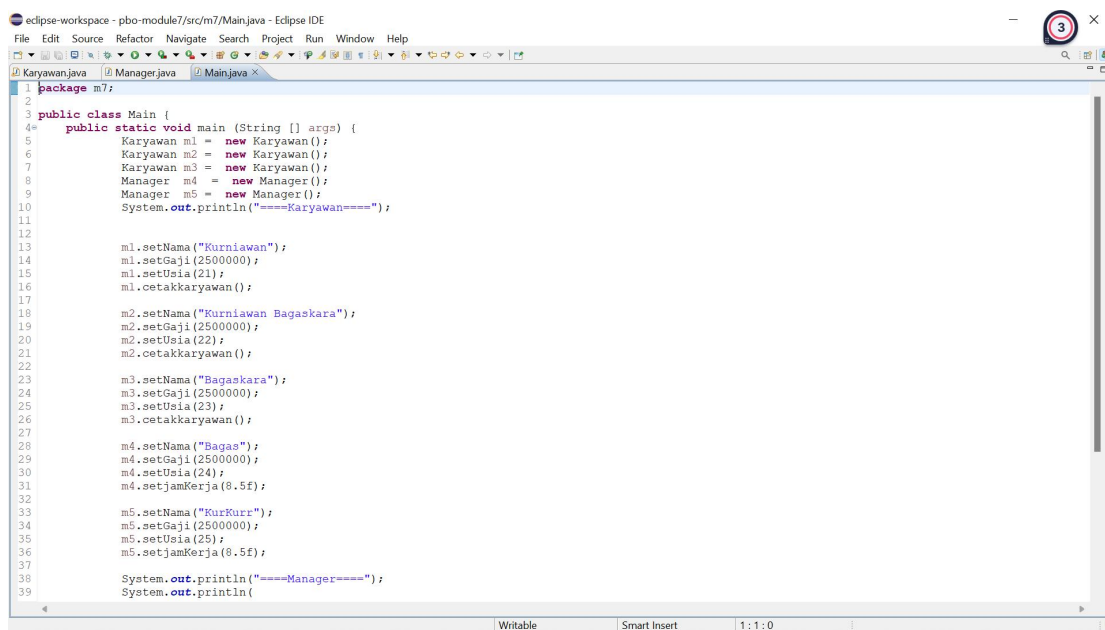
```
1 package m7;
2
3 public class Karyawan {
4     private String nama;
5     private float gaji;
6     private float jamKerja;
7     private int usia;
8
9     public String getName() {
10         return nama;
11     }
12     public void setName (String nama) {
13         this.nama = nama;
14     }
15     public float getGaji() {
16         return gaji;
17     }
18     public void setGaji(float gaji) {
19         this.gaji = gaji;
20     }
21     public int getUsia() {
22         return usia;
23     }
24     public void setUsia(int usia) {
25         this.usia = usia;
26     }
27 }
28
29
30 public void cetakKaryawan() {
31     System.out.println(
32         "Nama      : " + this.getName()      + "\n" +
33         "Gaji       : " + this.getGaji()       + "\n" +
34         "Usia        : " + this.getUsia()        + "\n" );
35 }
36
37
38 }
39
```

2. Manager

The screenshot shows the Eclipse IDE with a project named 'pbo-module7'. The 'Manager.java' file is open in the editor. The code defines a 'Manager' class that extends 'Karyawan'. It has a private attribute 'jamKerja' initialized to 7.5f. Methods include 'getjamKerja()', 'getGajiManager()' which returns 'getGaji()' multiplied by 2, 'setjamKerja()' which updates 'jamKerja', and 'cetak()' which prints the employee's details. The status bar at the bottom indicates 'Writable', 'Smart Insert', and the time '1:12:11'.

```
1 package m7;
2
3 public class Manager extends Karyawan{
4     private float jamKerja = 7.5f;
5
6     public float getjamKerja() {
7         return jamKerja;
8     }
9     public float getGajiManager() {
10         return getGaji() * 2;
11     }
12     public void setjamKerja(float jamKerja) {
13         this.jamKerja = jamKerja;
14     }
15
16     public void cetak() {
17         System.out.println(
18             "Nama      : " + this.getNama()      + "\n" +
19             "Gaji       : " + this.getGaji()      + "\n" +
20             "Usia      : " + this.getUsia()      + "\n" +
21             "Jam Kerja  : " + this.getjamKerja() + "\n");
22     }
23
24
25
```

3. Main

The screenshot shows the Eclipse IDE with the 'Main.java' file open. The code contains a 'Main' class with a 'main' method. It creates five 'Karyawan' objects (m1, m2, m3, m4, m5) and one 'Manager' object (m5). Each 'Karyawan' object is initialized with a name, salary (2500000), and age. The 'Manager' object is initialized with a salary of 2500000 and a 'jamKerja' of 8.5f. The code uses 'System.out.println' to print the details of the employees and the manager. The status bar at the bottom indicates 'Writable', 'Smart Insert', and the time '1:1:0'.

```
1 package m7;
2
3 public class Main {
4     public static void main (String [] args) {
5         Karyawan m1 = new Karyawan();
6         Karyawan m2 = new Karyawan();
7         Karyawan m3 = new Karyawan();
8         Manager m4 = new Manager();
9         Manager m5 = new Manager();
10        System.out.println("====Karyawan====");
11
12
13        m1.setNama("Kurniawan");
14        m1.setGaji(2500000);
15        m1.setUsia(21);
16        m1.cetakkaryawan();
17
18        m2.setNama("Kurniawan Bagaskara");
19        m2.setGaji(2500000);
20        m2.setUsia(22);
21        m2.cetakkaryawan();
22
23        m3.setNama("Bagaskara");
24        m3.setGaji(2500000);
25        m3.setUsia(23);
26        m3.cetakkaryawan();
27
28        m4.setNama("Bagas");
29        m4.setGaji(2500000);
30        m4.setUsia(24);
31        m4.setjamKerja(8.5f);
32
33        m5.setNama("KurKur");
34        m5.setGaji(2500000);
35        m5.setUsia(25);
36        m5.setjamKerja(8.5f);
37
38        System.out.println("====Manager====");
39        System.out.println(

```

```
eclipse-workspace - pbo-module7/src/m7/Main.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Karyawan.java Manager.java Main.java
16 m1.cetakKaryawan();
17
18 m2.setNama("Kurniawan Bagaskara");
19 m2.setGaji(2500000);
20 m2.setUsia(22);
21 m2.cetakKaryawan();
22
23 m3.setNama("Bagaskara");
24 m3.setGaji(2500000);
25 m3.setUsia(23);
26 m3.cetakKaryawan();
27
28 m4.setNama("Bagas");
29 m4.setGaji(2500000);
30 m4.setUsia(24);
31 m4.setJamKerja(8.5f);
32
33 m5.setNama("KurKurr");
34 m5.setGaji(2500000);
35 m5.setUsia(25);
36 m5.setJamKerja(8.5f);
37
38 System.out.println("====Manager====");
39 System.out.println(
40     "Nama      : " + m4.getNama()      + "\n" +
41     "Gaji       : " + m4.getGajiManager() + "\n" +
42     "Usia        : " + m4.getUsia()      + "\n" +
43     "Jam Kerja   : " + m4.getJamKerja()   + "\n");
44
45 System.out.println(
46     "Nama      : " + m5.getNama()      + "\n" +
47     "Gaji       : " + m5.getGajiManager() + "\n" +
48     "Usia        : " + m5.getUsia()      + "\n" +
49     "Jam Kerja   : " + m5.getJamKerja()   + "\n");
50
51
52 }
53 }
54 |
Writable Smart Insert 54 : 1 : 1384
```

Output:

```
eclipse-workspace - pbo-module7/src/m7/Main.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Karyawan.java Manager.java Main.java
16 m1.cetakKaryawan();
17
18 m2.setNama("Kurniawan Bagaskara");
19 m2.setGaji(2500000);
20 m2.setUsia(22);
21 m2.cetakKaryawan();
22
23 m3.setNama("Bagaskara");
24 m3.setGaji(2500000);
25 m3.setUsia(23);
26 m3.cetakKaryawan();
27
28 m4.setNama("Bagas");
29 m4.setGaji(2500000);
30 m4.setUsia(24);
31 m4.setJamKerja(8.5f);
32
33 m5.setNama("KurKurr");
34 m5.setGaji(2500000);
35 m5.setUsia(25);
36 m5.setJamKerja(8.5f);
37
38 System.out.println("====Manager====");
39 System.out.println(
40     "Nama      : " + m4.getNama()      + "\n" +
41     "Gaji       : " + m4.getGajiManager() + "\n" +
42     "Usia        : " + m4.getUsia()      + "\n" +
43     "Jam Kerja   : " + m4.getJamKerja()   + "\n");
44
45 System.out.println(
46     "Nama      : " + m5.getNama()      + "\n" +
47     "Gaji       : " + m5.getGajiManager() + "\n" +
48     "Usia        : " + m5.getUsia()      + "\n" +
49     "Jam Kerja   : " + m5.getJamKerja()   + "\n");
50
51
52 }
53 }
54 |
Writable Smart Insert 54 : 1 : 1384
```

```
<terminated> Main (3) [Java Application] C:\Users\Asus\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.17.0.4.v20220903-1038\jre\bin\javaw.exe (Dec 1, 2022, 12:17:16 AM - 12:17:16 AM) [pid: 3320]
====Karyawan====
Nama      : Kurniawan
Gaji      : 2500000.0
Usia      : 21

Nama      : Kurniawan Bagaskara
Gaji      : 2500000.0
Usia      : 22

Nama      : Bagaskara
Gaji      : 2500000.0
Usia      : 23

====Manager====
Nama      : Bagas
Gaji      : 5000000.0
Usia      : 24
Jam Kerja : 8.5

Nama      : KurKurr
Gaji      : 5000000.0
Usia      : 25
Jam Kerja : 8.5
```