

OBJECT ORIENTED PROGRAMMING LABORATORY WORK

MODULE 5



CREATED BY :

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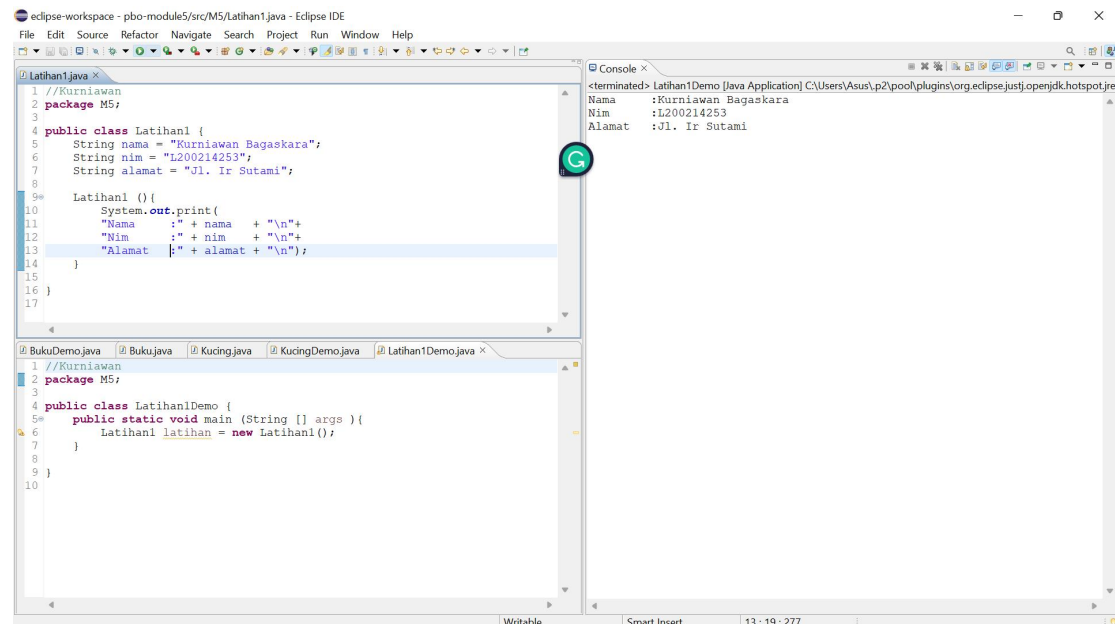
INFORMATICS STUDY PROGRAM

FACULTY OF COMMUNICATION AND INFORMATION SCIENCE

MUHAMMADIYAH SURAKARTA UNIVERSITY

Exercise 1

Creates a class containing name, nim, and address and a default constructor that can return name, nim, and address. Next create a new class with the main() function in it to display the results.



```
1 //Kurniawan
2 package M5;
3
4 public class Latihan1 {
5     String nama = "Kurniawan Bagaskara";
6     String nim = "L200214253";
7     String alamat = "Jl. Ir Sutami";
8
9     Latihan1 () {
10         System.out.print(
11             "Nama      : " + nama + "\n" +
12             "Nim       : " + nim + "\n" +
13             "Alamat    : " + alamat + "\n");
14     }
15 }
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```

```
1 //Kurniawan
2 package M5;
3
4 public class Latihan1Demo {
5     public static void main (String [] args) {
6         Latihan1 latihan = new Latihan1();
7     }
8 }
9
10
```

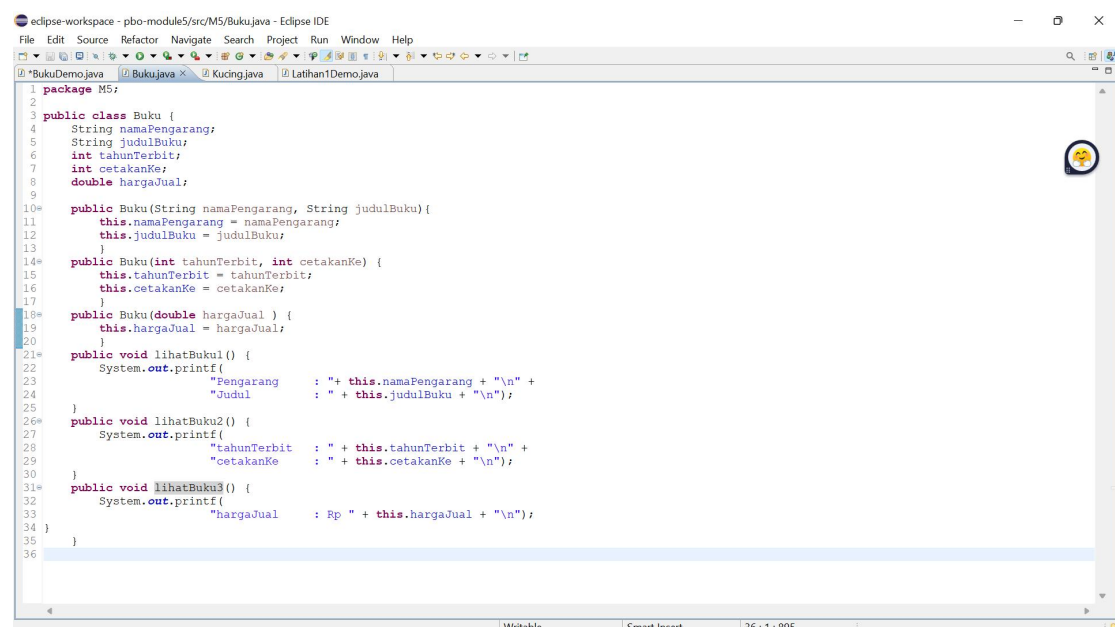
```
<terminated> Latihan1Demo [Java Application] C:\Users\Asus\AppData\Local\Temp\org.eclipse.justi.openjdk.hotspot.jre
Nama      : Kurniawan Bagaskara
Nim       : L200214253
Alamat    : Jl. Ir Sutami
```

Exercise 2

Create a Book class with String variables AuthorName, String Book title, int year of issue, int print to and double the selling price. Next create three constructors

with different parameters, as well as a method to display the book's information.

Create 10 book objects with the main() function that can display the values of all the Book parameters.



```
1 package M5;
2
3 public class Buku {
4     String namaPengarang;
5     String judulBuku;
6     int tahunTerbit;
7     int cetakanKe;
8     double hargaJual;
9
10     public Buku(String namaPengarang, String judulBuku) {
11         this.namaPengarang = namaPengarang;
12         this.judulBuku = judulBuku;
13     }
14     public Buku(int tahunTerbit, int cetakanKe) {
15         this.tahunTerbit = tahunTerbit;
16         this.cetakanKe = cetakanKe;
17     }
18     public Buku(double hargaJual) {
19         this.hargaJual = hargaJual;
20     }
21     public void lihatBuku1() {
22         System.out.printf(
23             "Pengarang      : " + this.namaPengarang + "\n" +
24             "Judul          : " + this.judulBuku + "\n");
25     }
26     public void lihatBuku2() {
27         System.out.printf(
28             "tahunTerbit    : " + this.tahunTerbit + "\n" +
29             "cetakanKe       : " + this.cetakanKe + "\n");
30     }
31     public void lihatBuku3() {
32         System.out.printf(
33             "hargaJual       : Rp " + this.hargaJual + "\n");
34     }
35 }
36
```

```

Pengarang      : Kurniawan Bagaskara
Judul          : L200214253
tahunTerbit    : 1
cetakanKe       : 1
hargaJual       : Rp 1.0
```



```
eclipse-workspace - pbo-module5/src/M5/BukuDemo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
BukuDemo.java Buku.java Kucing.java Latihan1Demo.java
49 bk51.lihatBuku1();
50 bk52.lihatBuku2();
51 bk53.lihatBuku3();
52
53 System.out.println("\n" + "***** Daftar Buku *****");
54 Buku bk61 = new Buku("Kurniawan Bagaskara", "Jiwa");
55 Buku bk62 = new Buku(2007, 7);
56 Buku bk63 = new Buku(70000);
57 bk61.lihatBuku1();
58 bk62.lihatBuku2();
59 bk63.lihatBuku3();
60
61 System.out.println("\n" + "***** Daftar Buku *****");
62 Buku bk71 = new Buku("Kurniawan Bagaskara", "Jiwa");
63 Buku bk72 = new Buku(2008, 8);
64 Buku bk73 = new Buku(80000);
65 bk71.lihatBuku1();
66 bk72.lihatBuku2();
67 bk73.lihatBuku3();
68
69 System.out.println("\n" + "***** Daftar Buku *****");
70 Buku bk81 = new Buku("Kurniawan Bagaskara", "Jiwa");
71 Buku bk82 = new Buku(2091, 9);
72 Buku bk83 = new Buku(90000);
73 bk81.lihatBuku1();
74 bk82.lihatBuku2();
75 bk83.lihatBuku3();
76
77 System.out.println("\n" + "***** Daftar Buku *****");
78 Buku bk91 = new Buku("Kurniawan Bagaskara", "Jiwa");
79 Buku bk92 = new Buku(2010, 10);
80 Buku bk93 = new Buku(100000);
81 bk91.lihatBuku1();
82 bk92.lihatBuku2();
83 bk93.lihatBuku3();
84
85 }
86 }
87
```

Output:

```
eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Console
terminated> BukuDemo [Java Application] C:\Users\Asus\AppData\Local\Temp\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.4.v20220903-1038\jre\bin\javaw.exe (Oct 16, 2022, 6:27:02 PM - 6:27:02 PM) [p
***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2001
cetakanKe : 1
hargaJual : Rp 10000.0

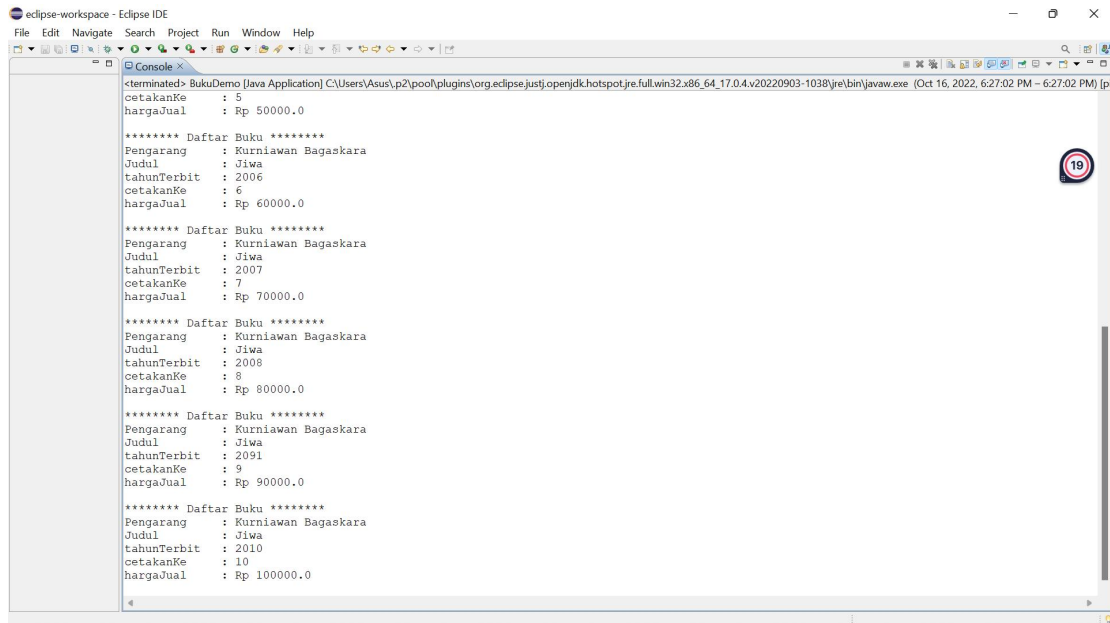
***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2002
cetakanKe : 2
hargaJual : Rp 20000.0

***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2003
cetakanKe : 3
hargaJual : Rp 30000.0

***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2004
cetakanKe : 4
hargaJual : Rp 40000.0

***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2005
cetakanKe : 5
hargaJual : Rp 50000.0

***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
```



```
<terminated> BukuDemo [Java Application] C:\Users\Asus\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.4.v20220903-1038\jre\bin\javaw.exe (Oct 16, 2022, 6:27:02 PM - 6:27:02 PM) [p...

cetakanKe : 5
hargaJual : Rp 50000.0

***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2006
cetakanKe : 6
hargaJual : Rp 60000.0

***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2007
cetakanKe : 7
hargaJual : Rp 70000.0

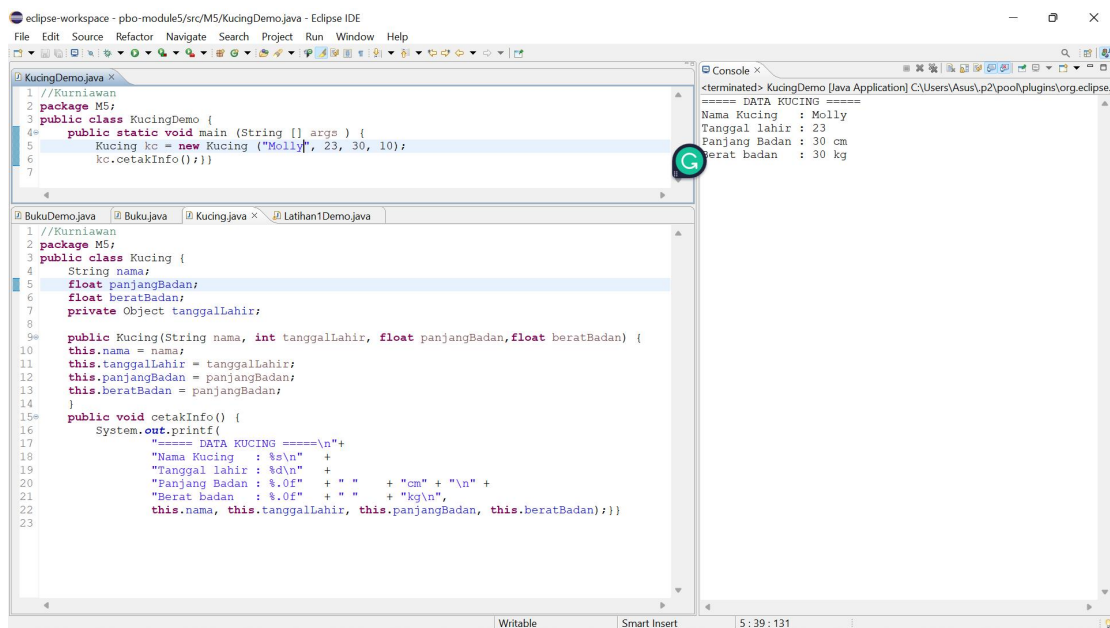
***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2008
cetakanKe : 8
hargaJual : Rp 80000.0

***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2009
cetakanKe : 9
hargaJual : Rp 90000.0

***** Daftar Buku *****
Pengarang : Kurniawan Bagaskara
Judul : Jiwa
tahunTerbit : 2010
cetakanKe : 10
hargaJual : Rp 100000.0
```

Task

1. Creating a class that contains a default constructor and a parameterized constructor.
2. Added a new class containing the main() method as an implementation of the class



```
KucingDemo.java
1 //Kurniawan
2 package M5;
3 public class KucingDemo {
4     public static void main (String [] args ) {
5         Kucing kc = new Kucing ("Molly", 23, 30, 10);
6         kc.cetakInfo();
7     }
8 }

Kucing.java
1 //Kurniawan
2 package M5;
3 public class Kucing {
4     String nama;
5     float panjangBadan;
6     float beratBadan;
7     private Object tanggalLahir;
8
9     public Kucing(String nama, int tanggalLahir, float panjangBadan, float beratBadan) {
10         this.nama = nama;
11         this.tanggalLahir = tanggalLahir;
12         this.panjangBadan = panjangBadan;
13         this.beratBadan = beratBadan;
14     }
15     public void cetakInfo() {
16         System.out.printf(
17             "==== DATA KUCING =====\n"+
18             "Nama Kucing : %s\n" +
19             "Tanggal lahir : %d\n" +
20             "Panjang Badan : %.0f" + " " + "cm" + "\n" +
21             "Berat badan : %.0f" + " " + "kg\n",
22             this.nama, this.tanggalLahir, this.panjangBadan, this.beratBadan);
23     }
24 }
```

```
<terminated> KucingDemo [Java Application] C:\Users\Asus\p2\pool\plugins\org.eclipse...
===== DATA KUCING =====
Nama Kucing : Molly
Tanggal lahir : 23
Panjang Badan : 30 cm
Berat badan : 30 kg
```