## OBJECT ORIENTED PROGRAMMING LABORATORY WORK MODULE 2



#### **CREATED BY:**

#### **KURNIAWAN BAGASKARA**

L20021253

# INFORMATICS STUDY PROGRAM FACULTY OF COMMUNICATION AND INFORMATION SCIENCE MUHAMMADIYAH SURAKARTA UNIVERSITY

#### 1. Modify the Demo Bread class and create 3 new objects:

```
### delpse-workspace -pbo-moduke/swc/M2/RottDemojava - Edipse IDE

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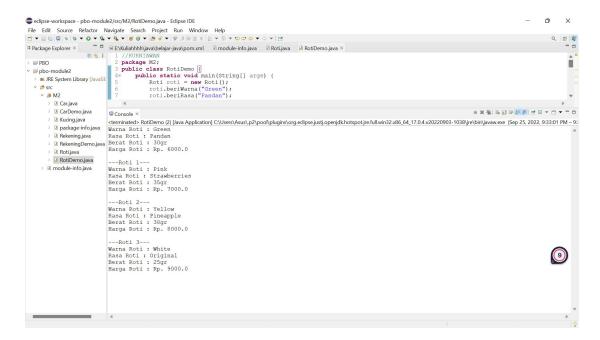
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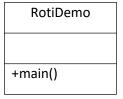
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```

#### **Output:**

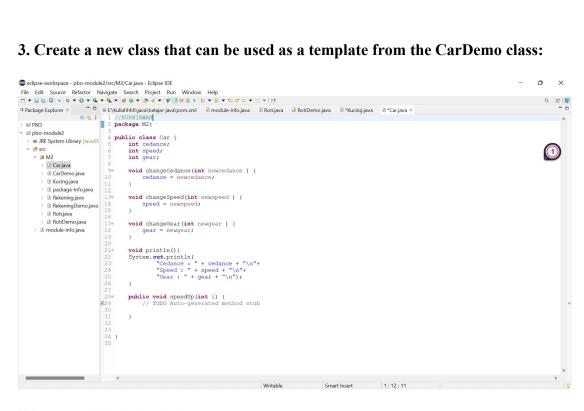


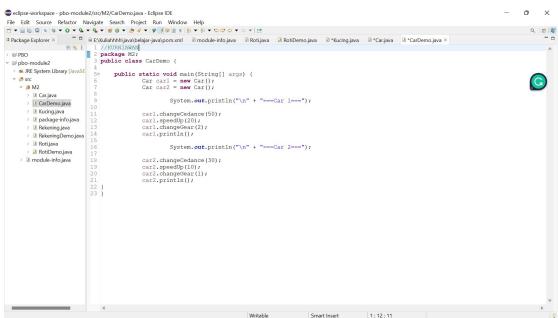
### 2. Class diagram of Bread Demo

Roti
-Warna: String
-Rasa: String
-Berat: int
-Harga: double
+infoRoti()

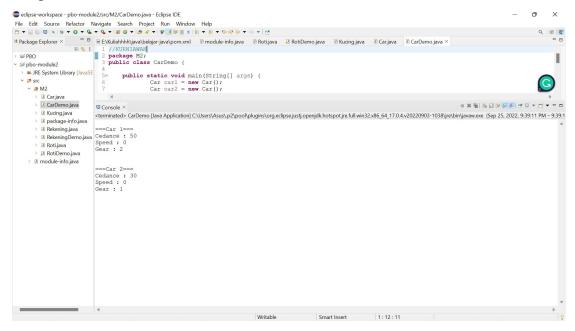


#### 3. Create a new class that can be used as a template from the CarDemo class:



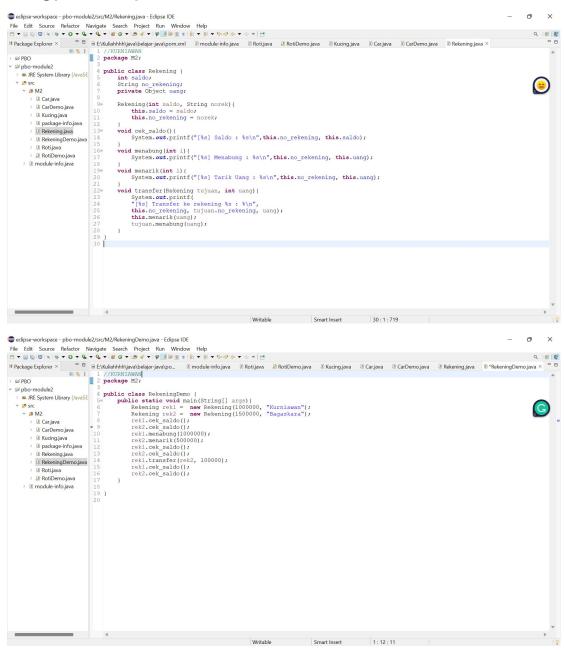


#### **Output:**



4.Create a class that can represent the properties of the Cat object. This object has fields/variables/properties in the form of age, fur color, and methods 5. Create a class that can represent the Account Object. The variables of this object are balance, no\_account, name, and methods in the form of check\_saldo(), saving(),withdraw(),and :

5.Create a class that can represent the Account Object. The variables of this object are balance, no\_account, name, and methods in the form of check\_saldo(), saving(),withdraw(),and transfer()



#### **OUTPUT:**

```
Console ×

Console X

Console X
```

#### 6. List of variables and functions/methods owned by the String Class:

-How to use charAt(int)

This function will return the character in a string in accordance with the index entered.

-How to use codePointAt(int)

This function will return the ASCII code of a char taken from the corresponding String.

-How to use codePointBefore(int)

This function will also return the ASCII code of the characters taken from a String.

-How to use codePointCount(int,int)

This function will return the length of the string according to the range entered.

#### **TASK 2.5**

1. Creating an Animal class and also creating objects from that class so that you can create various kinds of animal objects with their respective characters:

#### Output:

2.Create a class based on the class diagram of Lecturers, Employees, and Students according to Figure 2.4 in the module:

```
eclipse-workspace - pbo-module2/src/M2/Dosen.java - Eclipse IDE
| Debump| | Debu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3
                               Dosen(String nama, int nik, String pendidikan, String tglLahir){
    this.nama = nama;
    this.nik = nik;
    this.pendidikan = pendidikan;
    this.pendidikan = tglLahir;
                                }
void tampilkanNama() {
   System.out.println(this.nama);
                                void tampilkanNik() {
   System.out.println(this.nik);
                                }
void tampilkanPendiidikan() {
    System.out.println(this.pendidikan);
.
                                }
void tampilkanTglLahir() {
    System.out.println(this.tglLahir);
}
                                                                                                                                                                                                                                                                 Smart Insert 12 : 26 : 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               o
Q 1818
                               Karyawan(String nama, String alamat, String jabatan, double gaji){
    this.nama = nama;
    this.alamat = alamat;
    this.jabatan = jabatan;
    this.gaji = gaji;
}
                                }
void tampilkanNama() {
    System.out.println(this.nama);
                                 void tampilkanJabatan() {
   System.out.println(this.jabatan);
                                }
void tampilkanalamat() {
   System.out.println(this.alamat);
                                void tampilkanGaji() {
   System.out.println(this.Gaji);
                                                                                                                                                                                                                                        Writable Smart Insert 8:17:146
```

```
eclipse-workspace - pbo-module2/src/M2/Mahasiswa.java - Eclipse IDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          - ō ×
Q 🔡 🐉
            2 public class Mahasiswa {
4 String nama;
5 String nim;
6 String alamat;
7 int semester;
                                  Mahasiswa(String nama, String nim, String alamat, dint semester){
    this.nama = nama;
    this.nim = nim;
    this.alamat = alamat;
    this.semester = semseter;
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                                    void tampilkanNama() {
    System.out.println(this.nama);
                                     }
void tampilkanNim() {
    System.out.println(this.Nim);
                                    }
void tampilkanalamat() {
    System.out.println(this.alamat);
.
                                   }
void tampilkanSemester() {
   System.out.println(this.semester);
                                                                                                                                                                                                                                                                      Writable Smart Insert 1:12:11
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              2
3 public class IndentDemo {
4 public static void main(String)[] args){
5 Dosen dosen = new Dosen ("pak fajar ", 3372, "s2 informatika", "8 januari 1968");
6 Karyawan = new Karyawan = new Karyawan "pak dandi", "Ul kebon jeruk", "karyawan tetap", 2500000);
7 Mahasiswa mahasiswa = new Mahasiswa ("Kurniawan bagaskara ", "1200214253", "jalan ir sutami 56", 3);
                                                   System.out.println("==== Info Dosen====");
dosen.tampilkanNaman();
dosen.tampilkanNaman();
dosen.tampilkanNaman();
dosen.tampilkanNaman();
dosen.tampilkanNaman();
System.out.println("\n");
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                                                   System.out.println("---- Info Karyawan----");
dosen.tampilkanNams();
dosen.tampilkanNams();
dosen.tampilkanNams(t);
dosen.tampilkanNams(t);
dosen.tampilkanNams(t);
System.out.println("\n");
                                                   System.out.println("==== Info Mahasiswa====");
dosen.tampilkanNama();
dosen.tampilkanNam();
dosen.tampilkanName();
dosen.tampilkansemester();
System.out.println("\n");
                                                                                                                                                                                                                                                                           Writable Smart Insert 3:1:15
```