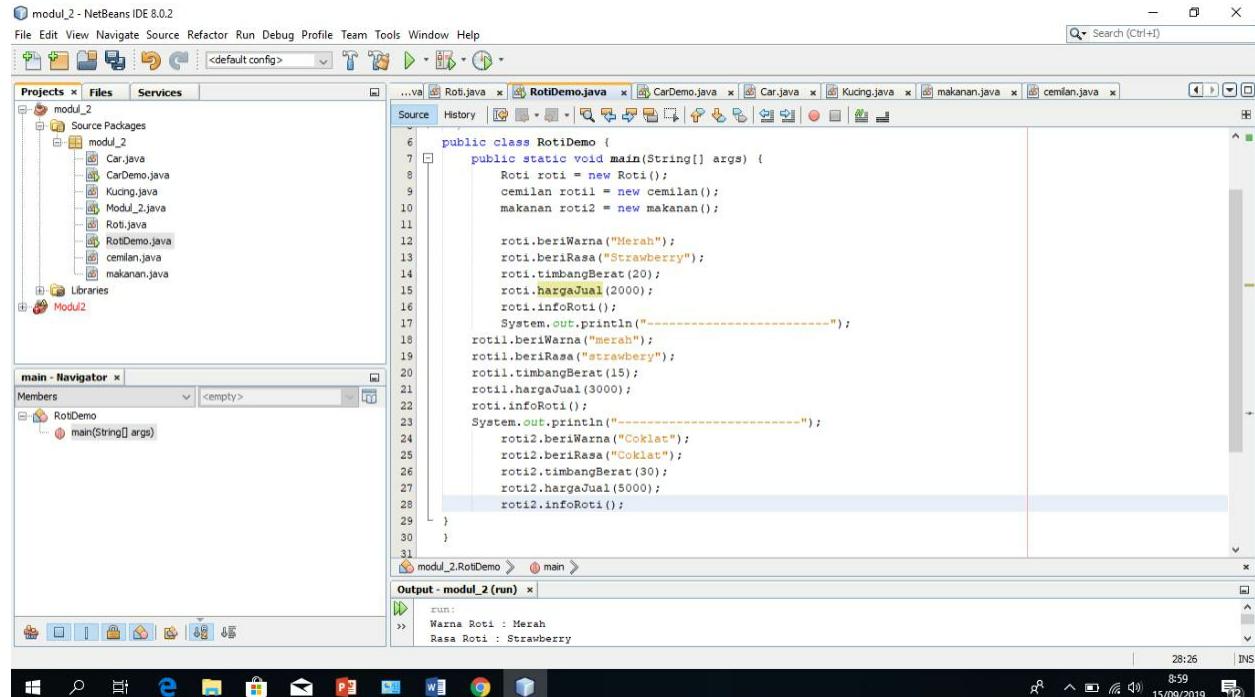


Nama : Dwi Alvian Verry Ajipramana  
NIM : L200180052  
Kelas : B

## Modul 2

### Kegiatan 1.

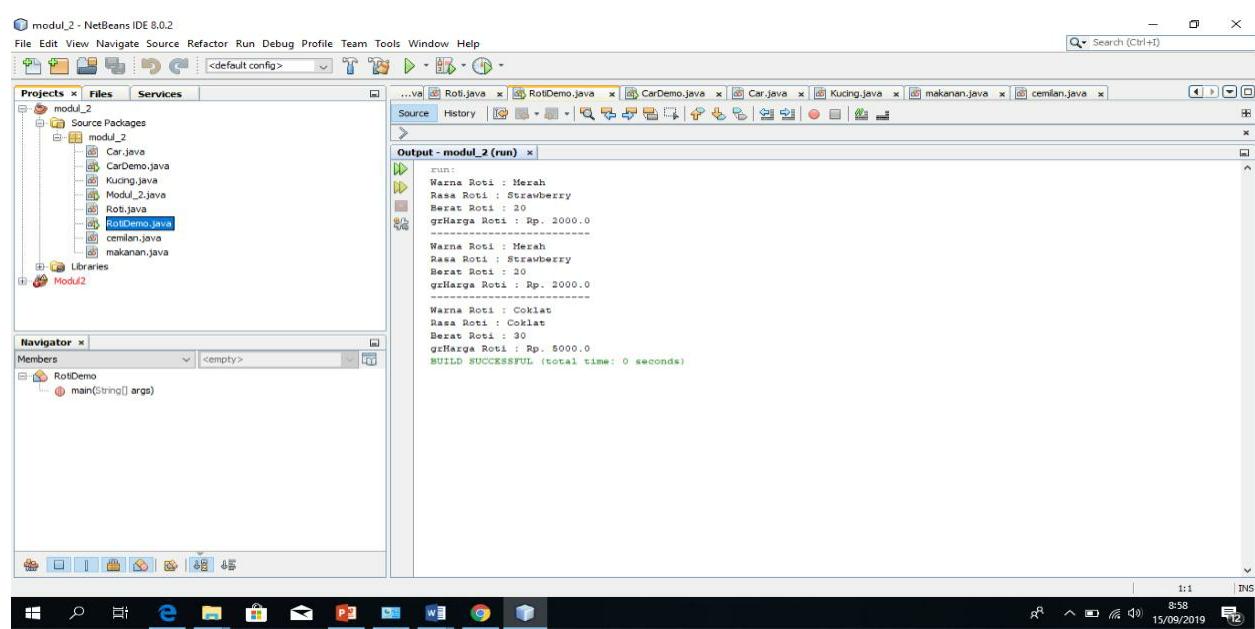


```
public class RotiDemo {
    public static void main(String[] args) {
        Roti roti = new Roti();
        cemilan rotil = new cemilan();
        makanan roti2 = new makanan();

        roti.beriWarna("Merah");
        roti.beriRasa("Strawberry");
        roti.timbangBerat(20);
        roti.hargaJual(2000);
        roti.infoRoti();
        System.out.println("-----");
        rotil.beriWarna("Merah");
        rotil.beriRasa("strawberry");
        rotil.timbangBerat(15);
        rotil.hargaJual(3000);
        rotil.infoRoti();
        System.out.println("-----");
        roti2.beriWarna("Coklat");
        roti2.beriRasa("Coklat");
        roti2.timbangBerat(30);
        roti2.hargaJual(5000);
        roti2.infoRoti();
    }
}
```

tampilan output:

```
run:
>> Warna Roti : Merah
Rasa Roti : Strawberry
-----
```



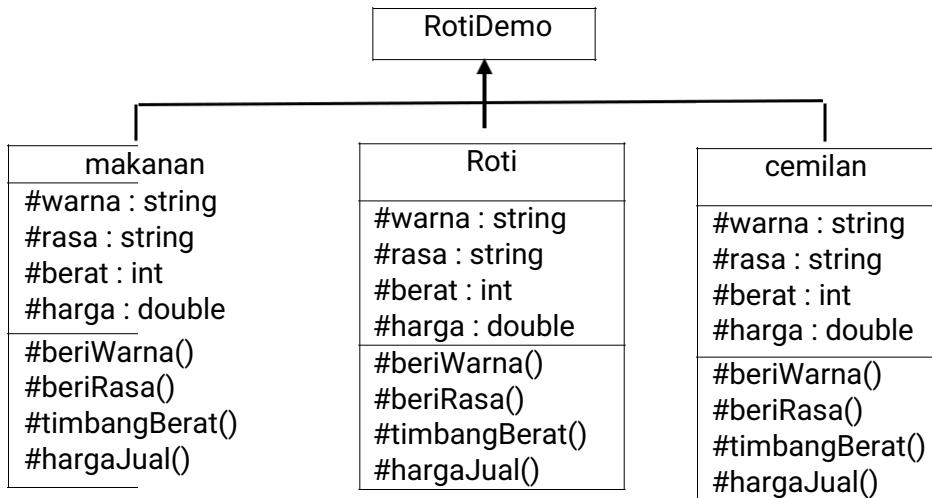
```
public class RotiDemo {
    public static void main(String[] args) {
        Roti roti = new Roti();
        cemilan rotil = new cemilan();
        makanan roti2 = new makanan();

        roti.beriWarna("Merah");
        roti.beriRasa("Strawberry");
        roti.timbangBerat(20);
        roti.hargaJual(2000.0);
        roti.infoRoti();
        System.out.println("-----");
        rotil.beriWarna("Merah");
        rotil.beriRasa("strawberry");
        rotil.timbangBerat(15);
        rotil.hargaJual(3000.0);
        rotil.infoRoti();
        System.out.println("-----");
        roti2.beriWarna("Coklat");
        roti2.beriRasa("Coklat");
        roti2.timbangBerat(30);
        roti2.hargaJual(5000.0);
        roti2.infoRoti();
    }
}
```

tampilan output:

```
run:
>> Warna Roti : Merah
Rasa Roti : Strawberry
Berat Roti : 20
grHarga Roti : Rp. 2000.0
-----
Warna Roti : Merah
Rasa Roti : Coklat
Berat Roti : 30
grHarga Roti : Rp. 5000.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

## Kegiatan 2.



## Kegiatan 3.

Screenshot of Eclipse IDE showing the Java code for the **Car** class and its output in the Console tab.

The **Car** class has the following code:

```
1 package Modul2;
2
3 public class Car {
4
5     int changeCadence;
6     int speedup;
7     int changeGear;
8
9
10    void changeCadence(int changecadence) {
11        changeCadence = changecadence;
12    }
13
14    void speedUp(int speedup) {
15        speedup = speedup;
16    }
17
18    void changeGear(int changegear) {
19        changeGear = changegear;
20    }
21
22    void printInfo() {
23        System.out.println(
24            "Gear : " + changeCadence + "\n" +
25            "Speed : " + speedup + "\n" +
26            "Gear : " + changeGear );
27    }
28}
```

The **Console** tab shows the output of the **printInfo()** method:

```
-----  
Warna Roti : coklat  
Rasa Roti : coklat  
Berat Roti : 30gr  
Harga Roti : Rp. 5000.0
```

## Kegiatan 4.

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure with files like RotiDemo.java, Kucing.java, Rekening.java, Car.java, CarDemo.java, and Mahasiswa.java.
- Code Editor:** Displays the Kucing.java code:

```
1 package Modul2;
2
3 public class Kucing {
4     String Warnabulu;
5     int Umur;
6
7     Kucing kucing= new Kucing();
8
9     void Warnabulu(String warnabulu) {
10         Warnabulu = warnabulu;
11     }
12
13     void Umur(int umur) {
14         Umur = umur;
15     }
16
17     void meong() {
18         System.out.println(
19             "Warna Bulu : " + Warnabulu + "\n" +
20             "Umur : " + Umur + "\n" );
21     }
22 }
23
24 }
```
- Outline View:** Shows the class structure: Modul2, Kucing, Warnabulu, Umur, kucing, and methods meong(), Warnabulu(String), Umur(int), and void.
- Console:** Displays the output of the application:

```
Warna Roti : coklat
Rasa Roti : coklat
Berat Roti : 30gr
Harga Roti : Rp. 5000.0
```

## Kegiatan 5.

a).

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure with files like RotiDemo.java, Kucing.java, Rekening.java, Car.java, CarDemo.java, and Mahasiswa.java.
- Code Editor:** Displays the Rekening.java code:

```
1 package Modul2;
2
3 public class Rekening {
4     double saldo = 0;
5     int no_rekening = 123456789;
6     String nama = "Rohmad Khoirudin";
7
8
9
10    void saldo() {
11        System.out.println(
12            "nama : " + nama + "\n" +
13            "no rekening : " + no_rekening + "\n" +
14            "Saldo : "+saldo
15        );
16    }
17
18    void menabung(double jumlahTabungan) {
19        saldo = saldo + jumlahTabungan;
20        System.out.println("Jumlah Menabung : " + saldo);
21    }
22
23    void menarik(double jumlahTarik) {
24        saldo = saldo - jumlahTarik;
25        System.out.println("Jumlah Tarik : " + saldo);
26    }
27
28    void transfer(double Transfer) {
29        saldo = saldo - Transfer;
30        System.out.println("Jumlah transfer : " + Transfer);
31    }
32
33
34 }
```
- Outline View:** Shows the class structure: Modul2, Rekening, saldo, no\_rekening, nama, saldo(), menabung(double), menarik(double), and transfer(double).
- Console:** Displays the output of the application:

```
terminated> RotiDemo [Java Application] C:\Program Files\Java\jdk-12.0.2\bin\javaw.exe (Sep 13, 2019, 5:28:23 AM)
```

b).

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure under "Modul2".
- Editor:** Displays the code for `RekeningDemo.java`. The code initializes a `Rekening` object, deposits 500000, withdraws 450000, and transfers 100000, then prints the balance.
- Console:** Shows the output of the program execution, which includes the name (Rohmad Khoirudin), account number (123456789), initial balance (0.0), deposit (500000.0), withdrawal (450000.0), transfer (100000.0), final name (Rohmad Khoirudin), final account number (123456789), and final balance (350000.0).
- Task List:** Shows a list of tasks.
- Outline:** Shows the class structure with methods like `main(String[] args)`.

## Kegiatan 6.

Berikut adalah daftar metode yang didukung oleh kelas String:

- `Char charAt (int index)`
- `int compareTo (Object o)`
- `int compareTo (String anotherString)`
- `int compareTolgnoreCase (String str)`
- `String concat (String str)`
- `contentEquals boolean (StringBuffer sb)`
- `statis String copyValueOf (char [] data)`
- `statis String copyValueOf (char [] data, int offset, int count)`
- `boolean endsWith (String suffix)`
- `boolean equals (Object anObject)`
- `boolean equalsIgnoreCase (String anotherString):`
- `getBytes byte ()`
- `byte [] getBytes (String charsetName)`
- `int hashCode()`
- `int indexOf (int ch)`

- int indexOf (int ch, int fromIndex)
- int indexOf (String str)
- int indexOf (String str, int fromIndex)
- String intern ()
- int lastIndexOf (int ch)
- int lastIndexOf (int ch, int fromIndex)
- int lastIndexOf (String str)
- int panjang ()
- String [] split (String regex)
- String [] split (String regex, batas int)
- boolean startsWith (String prefix, int toffset)
- String substring (int beginIndex)
- String substring (int beginIndex, int endIndex)
- char di [] toCharArray ()
- String toLowerCase ()
- String toLowerCase (lokal Lokal)
- String toString ()
- String toUpperCase ()
- String toUpperCase (lokal Lokal)
- String lis ()
- statis String valueOf (primitif tipe data x)

# Pekerjaan Rumah

1).

Screenshot of Eclipse IDE showing the Hewan.java code. The code defines a class Hewan with methods for setting name, number of legs, food type, and printing information.

```
1 package Modul2;
2
3 public class Hewan {
4     String Nama,Makanan,Type;
5     int jumlahKaki;
6
7     void Nama(String nama) {
8         Nama = nama;
9     }
10    void jumlahKaki(int jumlahkaki) {
11        jumlahKaki = jumlahkaki;
12    }
13    void Makanan(String makanan) {
14        Makanan = makanan;
15    }
16    void Type(String type) {
17        Type = type;
18    }
19    void printInfo() {
20        System.out.println(
21            "Nama Hewan : " + Nama + "\n" +
22            "Jumlah Kaki : " + jumlahKaki + "\n" +
23            "Makanan : " + Makanan + "\n" +
24            "Type Hewan : " + Type );
25    }
26}
27
28
```

The Outline view shows the class structure:

- Hewan
- Nama : String
- Makanan : String
- Type : String
- jumlahKaki : int
- Nama(String) : void
- jumlahKaki(int) : void
- Makanan(String) : void
- Type(String) : void
- printInfo() : void

Screenshot of Eclipse IDE showing the HewanDemo.java code. It creates two Hewan objects and prints their details.

```
1 package Modul2;
2
3 public class HewanDemo {
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6
7         Hewan hewan1 = new Hewan();
8         Hewan hewan2 = new Hewan();
9
10        hewan1.Nama("Harimau");
11        hewan1.jumlahKaki(4);
12        hewan1.Makanan("Daging");
13        hewan1.Type("Karnivora");
14        hewan1.printInfo();
15
16        System.out.println("-----");
17
18        hewan2.Nama("Kerbau");
19        hewan2.jumlahKaki(4);
20        hewan2.Makanan("Rumput");
21        hewan2.Type("Herbivora");
22        hewan2.printInfo();
23    }
24}
```

The Outline view shows the main method:

- HewanDemo
- main(String[]) : void

The Console output shows the printed information:

```
<terminated> HewanDemo Java Application C:\Program Files\Java\jdk-12.0.2\bin\javaw.exe (Sep 13, 2019, 5:35:32 AM)
Nama : Harimau
Jumlah Kaki : 4
makanan : Daging
Type Hewan : Karnivora
-----
Nama Hewan : Kerbau
Jumlah Kaki : 4
makanan : Rumput
Type Hewan : Herbivora
```

2).

eclipse-workspace - Modul2/src/Universitas/Dosen.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Dosen.java Kucing.java \*HewanDemo.java \*Karyawan.java \*Mahasiswa.java

```
1 package Universitas;
2 import java.util.Date;
3 public class Dosen {
4     String nama,pendidikan;
5     int NIK;
6     Date tanggallahir ;
7
8     void tampilanNama(String tampilannama) {
9         nama = tampilannama;
10    }
11
12    void tampilanNIK(int tampilanNik) {
13        NIK = tampilanNik;
14    }
15
16    void tampilanTglLahir(Date Tanggalahir) {
17        tanggallahir = Tanggalahir;
18    }
19
20
21 }
```

Task List Find All Activate...

Outline Dosen

- nama : String
- pendidikan : String
- NIK : int
- tanggallahir : Date
- tampilanNama(String)
- tampilanNIK(int) : void
- tampilanTglLahir(Date) : void

Problems Declaration Console

<terminated> HewanDemo [Java Application] C:\Program Files\Java\jdk-12.0.2\bin\javaw.exe (Sep 13, 2019, 5:35:32 AM)

```
Nama Hewan : Harimau
Jumlah Kaki : 4
makanan : Daging
Type Hewan : Karnivora
-----
Nama Hewan : Kerbau
Jumlah Kaki : 4
makanan : Rumput
Type Hewan : Herbivora
```

Writable Smart Insert 22:1

Windows Taskbar 8:23 13/09/2019

eclipse-workspace - Modul2/src/Universitas/Karyawan.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Dosen.java Kucing.java \*HewanDemo.java \*Karyawan.java \*Mahasiswa.java

```
1 package Universitas;
2
3 public class Karyawan {
4     String nama,alamat,jabatan;
5     int gaji;
6
7     void tampilanNama(String tampilannama) {
8         nama = tampilannama;
9     }
10
11    void tampilanAlamat(String tampilanalamat) {
12        alamat = tampilanalamat;
13    }
14
15    void tampilanJabatan(String tampilanjabatan) {
16        jabatan = tampilanjabatan;
17    }
18
19    void tampilanGaji(int tampilangaji) {
20        gaji = tampilangaji;
21    }
22 }
```

Task List Find All Activate...

Outline Karyawan

- nama : String
- alamat : String
- jabatan : String
- gaji : int
- tampilanNama(String)
- tampilanAlamat(String)
- tampilanJabatan(String)
- tampilanGaji(int) : void

Problems Declaration Console

<terminated> HewanDemo [Java Application] C:\Program Files\Java\jdk-12.0.2\bin\javaw.exe (Sep 13, 2019, 5:35:32 AM)

```
Nama Hewan : Harimau
Jumlah Kaki : 4
makanan : Daging
Type Hewan : Karnivora
-----
Nama Hewan : Kerbau
Jumlah Kaki : 4
makanan : Rumput
Type Hewan : Herbivora
```

Writable Smart Insert 19:21

Windows Taskbar 6:21 13/09/2019

eclipse-workspace - Modul2/src/Universitas/Mahasiswa.java - Eclipse IDE

File Edit Source Refactor Navigate Project Run Window Help

Package Explorer    Task List    Find    All    Activate... (

HewanDemo.java    Kucing.java    Dosen.java    Karyawan.java    Mahasiswa.java

src Modul2 JRE System Library [JavaSE-12]

Modul2

Car.java CarDemo.java Hewan.java HewanDemo.java Kucing.java Rekening.java RekeningDemo.java Roti.java RotiDemo.java

Universitas

Dosen.java Karyawan.java Mahasiswa.java package-info.java module-info.java

```
1 package Universitas;
2
3 public class Mahasiswa {
4     String nama,alamat;
5     int semester;
6     int NIM;
7
8     void tampilkanNama(String namaHS) {
9         nama= namaHS;
10    }
11
12
13     void tampilkanNIM(int tampilkanNim) {
14         NIM= tampilkanNim;
15     }
16     void tampilkanAlamat(String tampilkanalamat) {
17         alamat= tampilkanalamat;
18     }
19     void tampilkanSemester(int tampilkansemester) {
20         semester = tampilkansemester;
21     }
22 }
23
24 }
```

Problems Declaration Console

<terminated> HewanDemo [Java Application] C:\Program Files\Java\jdk-12.0.2\bin\javaw.exe (Sep 13, 2019, 5:35:32 AM)

Nama Hewan : Harimau  
Jumlah Kaki : 4  
makanan : Daging  
Type Hewan : Karnivora

-----

Nama Hewan : Kerbau  
Jumlah Kaki : 4  
makanan : Rumput

-----

Writable Smart Insert 22:6

6:25 13/09/2019

The screenshot shows the Eclipse IDE interface with the following details:

- Project Structure:** The Package Explorer view shows a project named "Modul2" containing packages "Modul2" and "Universitas". "Modul2" contains classes like Car, CarDemo, Hewan, HewanDemo, Kucing, Rekening, RekeningDemo, Roti, and RotiDemo. "Universitas" contains classes like Dosen, Karyawan, Mahasiswa, package-info, and module-info.
- Code Editor:** The main editor window displays the Java code for the "Mahasiswa" class. The code includes fields for name, address, semester, and NIM, along with methods to display each of these.
- Console Output:** The Console tab shows the output of running the "HewanDemo" application. It prints the details of two animals: a Harimau (tiger) and a Kerbau (buffalo), including their number of legs and food type.
- Bottom Bar:** The taskbar at the bottom shows various system icons and the current date and time (6:25, 13/09/2019).