

LAPORAN PRAKTIKUM
PEMROGRAMAN BERORIENTASI OBJEK

(Dosen Pengampu: *Dede Husen, M.Kom*)



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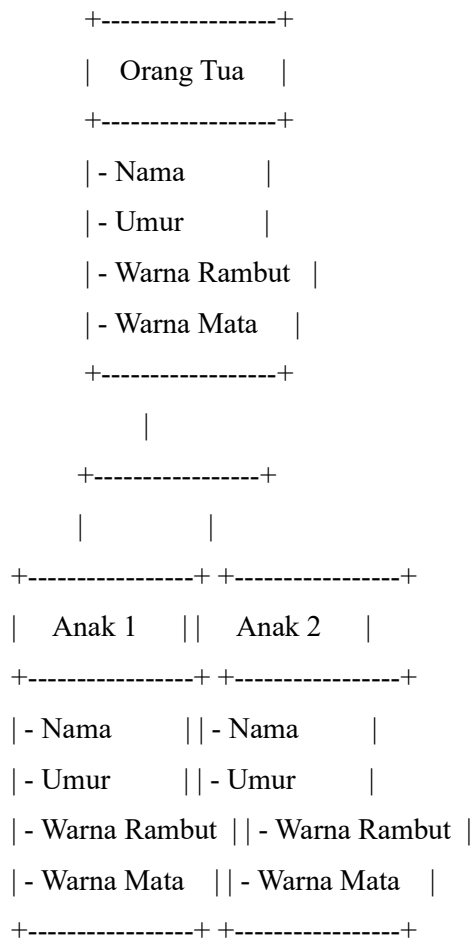
KELAS : TINFC-2023-04

TEKNIK INFORMATIKA
FAKULTAS ILMU KOMPUTER
UNIVERSITAS KUNINGAN

2024

PRETEST

1. Gambarkan contoh diagram inheritance dalam kehidupan sehari-hari!



PRAKTIKUM1

```
package com.example;
```

```
public class Person {

    private String Nama;

    private String Alamat;

    private int Umur;

    public Person(){

    }

    public Person (String Nama, String Alamat, int Umur){
```

```

        this>Nama = Nama;

        this.Alatamat = Alamat;

        this.Umur = Umur;}

    public String getNama(){

        return Nama;}

    public String getAlamat(){

        return Alamat;}

    public int getUmur(){

        return Umur;}

    public void setNama (String Nama){

        this>Nama = Nama;}

    public void setAlamat (String Alamat){

        this.Alatamat = Alamat;}

    public void setUmur (int Umur){

        this.Umur = Umur;}

    public void infoPerson(){

        System.out.println("\nInfo Person");

        System.out.println("Nama\t\t: "+ getNama());

        System.out.println("Alamat\t\t\t: "+ getAlamat());

        System.out.println("Umur\t\t: "+ getUmur());

    }

}

package com.example;

```

```

public class Dosen extends Person {

    private String idDosen;

    public Dosen()

    {

    }

    public Dosen (String Nama, String Alamat, int Umur, String idDosen){

        super (Nama, Alamat, Umur);

        this.idDosen = idDosen;

    }

    public String getIdDosen()

    {

        return idDosen;

    }

    public void setIdDosen(String idDosen)

    {

        this.idDosen = idDosen;

    }

    public void infoDosen()

    {

        System.out.println("\nInfo Dosen");

        System.out.println("idDosen\t\t: "+getIdDosen());

        System.out.println("Nama\t\t: "+getNama());

        System.out.println("Alamat\t\t\t: "+getAlamat());

        System.out.println("Umur\t\t: "+getUmur());

    }

```

```

}

package com.example;

public class Mahasiswa extends Person{

    private String NIM;

    public Mahasiswa()

    {

    }

    public Mahasiswa(String Nama, String Alamat, int Umur, String NIM)

    {

        super(Nama, Alamat, Umur);

        this.NIM = NIM;

    }

    public String getNIM()

    {

        return NIM;

    }

    public void setNIM(String NIM)

    {

        this.NIM = NIM;

    }

    public void infoMahasiswa()

    {

        System.out.println("\nInfo Mahaiswa");

        System.out.println("NIM\t\t: "+getNIM());
    }
}

```

```

        System.out.println("Nama\t\t: "+getNama());

        System.out.println("Alamat\t\t\t: "+getAlamat());

        System.out.println("Umur\t\t: "+getUmur());

    }

}

package com.example;

public class Tampil {

    public static void main(String[] asdasd) {

        Person a = new Person ("Rere","Cijoho", 29);

        a.infoPerson();

        Dosen b = new Dosen ("Gugun","Kuningan",45,"17.05.05");

        b.infoDosen();

        Mahasiswa c = new Mahasiswa("Ina","Lebakwangi",17,"13.11.7066");

        c.infoMahasiswa();

        System.out.println("-----");

    }

}

```

```

p' 'C:\bpo\rizal\target\classes' 'com.example.Tampil'

Info Person
Nama      : Rere
Alamat    : Cijoho
Umur      : 29

Info Dosen
idDosen   : 17.05.05
Nama      : Gugun
Alamat    : Kuningan
Umur      : 45

Info Mahaiswa
NIM       : 13.11.7066
Nama      : Ina
Alamat    : Lebakwangi
Umur      : 17
-----

```

PRAKTIKUM2

```
package com.example;
```

```
public class kakek {
```

```
    protected String namekakek;
```

```
    protected String address;
```

```
    public kakek() {
```

```
        System.out.println("\n Program Demo Inheritance");
```

```
        System.out.println("=====");
```

```
        System.out.println(" Masukan konstruktor kakek ");
```

```
        System.out.println("-Dijalankan oleh class Bapak-");
```

```
        namekakek = "Joyo Cokro Aminato";
```

```
        address = "Sleman Djogjakarta";
```

```
    }
```

```
    public kakek(String namekakek, String address) {
```

```
        this.namekakek = namekakek;
```

```
        this.address = address;
```

```
    }
```

```
    public String getName() {
```

```
        return namekakek;
```

```
    }
```

```

    public String getAddress() {
        return address;
    }
}

```

```

package com.example;

```

```

public class bapak extends kakek {
    protected String namebapak;
    protected String addressbapak;

```

```

    public bapak() {
        System.out.println("Nama Kakek :" + namekakek);
        System.out.println("Alamat Kakek :" + address);
        System.out.println("\n");
        System.out.println(" Masukan konstruktor Bapak ");
        System.out.println("---Dijalankan class cucu---");
        namebapak = "ROHAEDI";
        addressbapak = "KUNINGAN";
    }

```

```

    public bapak(String namebapak, String addressbapak) {
        this.namebapak = namebapak;
        this.addressbapak = addressbapak;
    }

```



```

public String getNama() {

    return namebapak;

}

public String getAddress() {

    return addressbapak;

}

public static void main(String[] args) {

    bapak sari = new bapak();

}

}

package com.example;

public class cucu extends bapak {

    public cucu() {

        System.out.println("Nama Bapak :" + namebapak);

        System.out.println("Alamat Bapak :" + addressbapak);

    }

    public static void main(String[] args) {

        String namacucu;

        cucu lagan = new cucu();

        System.out.println("\nSaya adalah CUCU");

        System.out.println("Nama saya : Rio Andriyat Krisdiawan");
    }
}

```

```

        System.out.println("");
    }
}

```

```

p' 'C:\bpo\rizal\target\classes' 'com.example.cucu'

Program Demo Inheritance
=====
Masukan konstruktor kakek
-Dijalankan oleh class Bapak-
Nama Kakek :Joyo Cokro Aminato
Alamat Kakek :Sleman Djogjakarta

Masukan konstruktor Bapak
---Dijalankan class cucu---
Nama Bapak :ROHAEDI
Alamat Bapak :KUNINGAN

Saya adalah CUCU
Nama saya : Rio Andriyat Krisdiawan

PS C:\bpo>

```

POSTTEST

1. Buatlah program Inheritance dengan case studi yang berbeda dari praktikum diatas.

```
package com.example;
```

```

public class Kendaraan {

    private String Merk;

    private String Warna;

    private String Seri;

    public Kendaraan() {

    }

```

```

    public Kendaraan(String Merk, String Warna, String Seri) {

        this.Merk = Merk;

        this.Warna = Warna;

```

```
    this.Seri = Seri;  
}
```

```
public String getMerk() {  
    return Merk;  
}
```

```
public String getWarna() {  
    return Warna;  
}
```

```
public String getSeri() {  
    return Seri;  
}
```

```
public void setMerk(String Merk) {  
    this.Merk = Merk;  
}
```

```
public void setWarna(String Warna) {  
    this.Warna = Warna;  
}
```

```
public void setSeri(String Seri) {  
    this.Seri = Seri;  
}
```

```

    }

    public void infoKendaraanMobil() {
        System.out.println("\nInfo Kendaraan Mobil");
        System.out.println("Merk\t\t: " + getMerk());
        System.out.println("Warna\t\t: " + getWarna());
        System.out.println("Seri\t\t: " + getSeri());
    }
}

package com.example;

public class Merk extends Kendaraan {
    private String platNomor;

    public Merk() {
    }

    public Merk(String Merk, String Warna, String Seri, String platNomor) {
        super(Merk, Warna, Seri);
        this.platNomor = platNomor;
    }

    public String getPlatNomor() {
        return platNomor;
    }
}

```

```

public void setPlatNomor(String platNomor) {

    this.platNomor = platNomor;

}

public void infoMerkMotor() {

    System.out.println("\nInfo Merk Motor");

    System.out.println("Plat Nomor\t: " + getPlatNomor());

    System.out.println("Merk\t\t: " + getMerk());

    System.out.println("Warna\t\t: " + getWarna());

    System.out.println("Seri\t\t: " + getSeri());

}

}

package com.example;

public class Warna extends Kendaraan {

    private int tahunPembuatan;

    public Warna() {

    }

    public Warna(String Merk, String Warna, String Seri, int tahunPembuatan) {

        super(Merk, Warna, Seri);

        this.tahunPembuatan = tahunPembuatan;

    }

```

```

public int getTahunPembuatan() {

    return tahunPembuatan;

}


public void setTahunPembuatan(int tahunPembuatan) {

    this.tahunPembuatan = tahunPembuatan;

}


public void infoWarnaMotor() {

    System.out.println("\nInfo Warna Motor");

    System.out.println("Tahun Pembuatan\t: " + getTahunPembuatan());

    System.out.println("Merk\t\t: " + getMerk());

    System.out.println("Warna\t\t: " + getWarna());

    System.out.println("Seri\t\t: " + getSeri());

}

}

package com.example;


public class Menampilkan {

    public static void main(String[] args) {

        Kendaraan a = new Kendaraan("Toyota", "Merah", "1234");

        a.infoKendaraanMobil();


        Merk b = new Merk("Honda", "Biru", "5678", "B 1234 CD");
    }
}

```

```
b.infoMerkMotor();
```

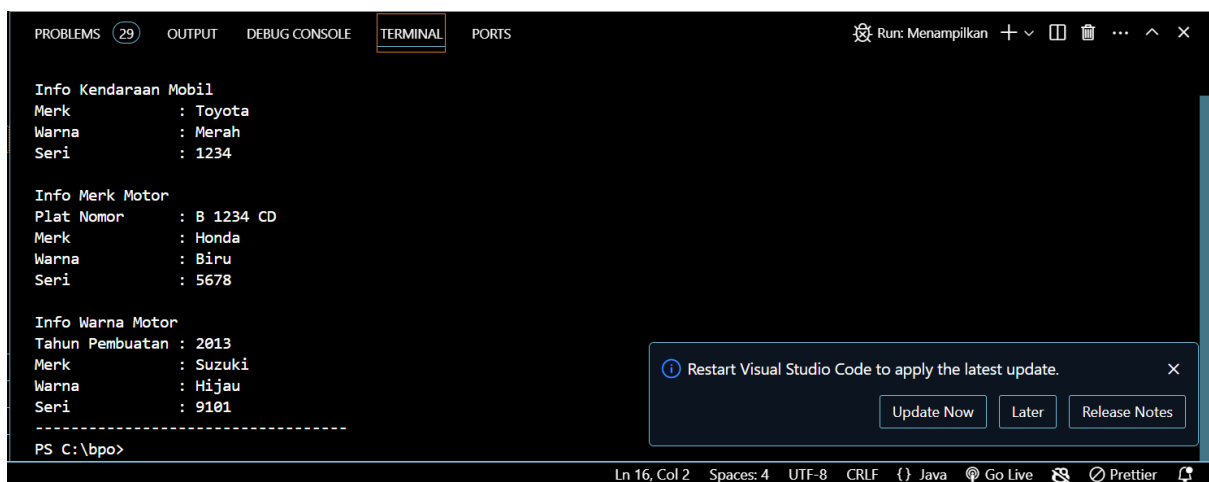
```
Warna c = new Warna("Suzuki", "Hijau", "9101", 2013);
```

```
c.infoWarnaMotor();
```

```
System.out.println("-----");
```

```
}
```

```
}
```



```
PROBLEMS (29) OUTPUT DEBUG CONSOLE TERMINAL PORTS
Run: Menampilkan + - [] ... ^ x

Info Kendaraan Mobil
Merk      : Toyota
Warna     : Merah
Seri      : 1234

Info Merk Motor
Plat Nomor : B 1234 CD
Merk       : Honda
Warna      : Biru
Seri       : 5678

Info Warna Motor
Tahun Pembuatan : 2013
Merk            : Suzuki
Warna          : Hijau
Seri           : 9101
-----
PS C:\bpo>
```

TUGAS INDIVIDU UNTUK MINGGU DEPAN

1. Modifikasi Program Praktikum 2, sehingga terdapat sub class cicit.

```
package com.example;
```

```
public class kakek {
```

```
    protected String namekakek;
```

```
    protected String address;
```

```
    public kakek() {
```

```
        System.out.println("\n Program Demo Inheritance");
```

```
        System.out.println("=====");
```

```
        System.out.println(" Masukan konstruktor kakek ");
```

```
        System.out.println("-Dijalankan oleh class Bapak-");
```

```
        namekakek = "Joyo Cokro Aminato";
```

```

        address = "Sleman Djogjakarta";
    }

    public kakek(String namekakek, String address) {
        this.namekakek = namekakek;
        this.address = address;
    }

    public String getName() {
        return namekakek;
    }

    public String getAddress() {
        return address;
    }
}

package com.example;

public class bapak extends kakek {
    protected String namebapak;
    protected String addressbapak;

    public bapak() {
        System.out.println("Nama Kakek :" + namekakek);
        System.out.println("Alamat Kakek :" + address);
        System.out.println("\n");
        System.out.println("Masukan konstruktor Bapak ");
        System.out.println("---Dijalankan class cucu---");
        namebapak = "ROHAEDI";
        addressbapak = "KUNINGAN";
    }

    public bapak(String namebapak, String addressbapak) {
        this.namebapak = namebapak;
        this.addressbapak = addressbapak;
    }
}

```



```

    public String getNama() {
        return namebapak;
    }

    public String getAddress() {
        return addressbapak;
    }

    public static void main(String[] args) {
        bapak sari = new bapak();
    }
}

package com.example;

public class cucu extends bapak {
    public cucu() {
        System.out.println("Nama Bapak :" + namebapak);
        System.out.println("Alamat Bapak :" + addressbapak);
    }

    public static void main(String[] args) {
        String namacucu;
        cucu lagan = new cucu();
        System.out.println("\nSaya adalah CUCU");
        System.out.println("Nama saya : Rio Andriyat Krisdiawan");
        System.out.println("");
    }
}

package com.example;

public class cicit extends cucu {
    public cicit() {
        super();
        System.out.println("Nama Bapak :" + namebapak);
        System.out.println("Alamat Bapak :" + addressbapak);
    }
}

```

```

    }

    public static void main(String[] args) {
        cicit generasi = new cicit();
        System.out.println("\nSaya adalah CICIT");
        System.out.println("Nama saya : Sudarsono");
        System.out.println("");
    }
}

```

The screenshot shows a Visual Studio Code terminal window with the following content:

```

PROBLEMS (29) OUTPUT DEBUG CONSOLE TERMINAL PORTS
Program Demo Inheritance
=====
Masukan konstruktor kakek
-Dijalankan oleh class Bapak-
Nama Kakek :Joyo Cokro Aminato
Alamat Kakek :Sleman Djogjakarta

Masukan konstruktor Bapak
---Dijalankan class cucu---
Nama Bapak :ROHAEDI
Alamat Bapak :KUNINGAN
Nama Bapak :ROHAEDI
Alamat Bapak :KUNINGAN

Saya adalah CICIT
Nama saya : Sudarsono

PS C:\bpo>

```

On the right side of the terminal, there are two buttons: "Run: Mena..." and "Run: cicit". At the bottom right, a notification box says "Restart Visual Studio Code to apply the latest update." with buttons "Update Now", "Later", and "Release Notes". The status bar at the bottom shows "Ln 16, Col 2 (460 selected) Spaces: 4 UTF-8 CRLF {} Java Go Live Prettier".