

## ACTIVITY PERTEMUAN 2

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Materi : Anatomi Class , Struktur aplikasi dan OOP

Mata Praktikum : Rekayasa Perangkat Lunak 2

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### Abstraksi dan OOP

#### File hewan

```
package com.mycompany.pert2_50422565;

/*
 * @author LENOVO LOQ
 */
public class Hewan {

    // Attribute
    String nama;
    int umur;
    String jenis;

    // Constructor
    public Hewan(String nama, int umur, String jenis) {...5 lines...}

    // Method
    public void makan() {
        System.out.println(nama + " sedang makan.");
    }

    public void tidur() {
        System.out.println(nama + " sedang tidur.");
    }

    public void bergerak() {
        System.out.println(nama + " sedang bergerak.");
    }
}
```

#### File main

```
package com.mycompany.pert2_50422565;

/*
 * @author LENOVO LOQ
 */
public class Pert2_50422565 {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // Membuat object Hewan
        Hewan kucing = new Hewan("Kitty", 2, "Kucing");
        Hewan anjing = new Hewan("Doggy", 3, "Anjing");

        // Memanggil method
        kucing.makan();
        kucing.bergerak();
        anjing.tidur();
        anjing.bergerak();
    }
}
```

## Output

```
--- resources:3.3.1:resources (default-resources) @ Pert2_50422565 ---
- skip non existing resourceDirectory C:\Projek\new java\Pert2_50422565\src\main\resources

--- compiler:3.13.0:compile (default-compile) @ Pert2_50422565 ---
Recompiling the module because of changed source code.
Compiling 2 source files with javac [debug release 24] to target\classes

--- exec:3.1.0:exec (default-cli) @ Pert2_50422565 ---
Kitty sedang makan.
Kitty sedang bergerak.
Doggy sedang tidur.
Doggy sedang bergerak.

-----
BUILD SUCCESS
-----
Total time: 1.721 s
Finished at: 2025-10-25T14:19:12+07:00
-----
```

## Inheritance

### File class kucing

```
package com.mycompany.pert2_50422565;

import static java.time.Clock.system;
import static java.time.InstantSource.system;

/**
 *
 * @author LENOVO LOO
 */
public class Kucing extends Hewan{

    public Kucing(String nama, int umur) {
        super(nama, umur, "Kucing");
    }

    @Override
    public void bergerak(){
        System.out.println(nama + " melompat-lompat");
    }
}
```

### File class hewan

```
public class Hewan {
    String nama;
    int umur;
    String jenis;

    public Hewan(String nama, int umur, String jenis) {...5 lines}
    public void makan() {
        System.out.println(nama + " sedang makan.");
    }
    public void tidur() {
        System.out.println(nama + " sedang tidur.");
    }
    public void bergerak() {
        System.out.println(nama + " sedang bergerak.");
    }
}
```

## File Main

```
package com.mycompany.pert2_50422565;

/*
 * @author LENOVO LOQ
 */
public class Pert2_50422565 {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // Membuat object Hewan
        Hewan anjing = new Hewan("Doggy", 3, "Anjing");
        Kucing kucing = new Kucing("Mimi", 1);

        anjing.makan();
        anjing.bergerak();

        kucing.makan();|  
kucing.bergerak();
    }
}
```

## Output

```
-----< com.mycompany:Pert2_50422565 >-----
[INFO] Building Pert2_50422565 1.0-SNAPSHOT
[INFO] from pom.xml
-----[ jar ]-----

[INFO] --- resources:3.3.1:resources (default-resources) @ Pert2_50422565 ---
[INFO] skip non existing resourceDirectory C:\Projek\new java\Pert2_50422565\src\main\resources

[INFO] --- compiler:3.13.0:compile (default-compile) @ Pert2_50422565 ---
[INFO] Recompiling the module because of changed source code.
[INFO] Compiling 4 source files with javac [debug release 24] to target\classes

[INFO] --- exec:3.1.0:exec (default-cli) @ Pert2_50422565 ---
[INFO] Doggy sedang makan.
[INFO] Doggy sedang bergerak.
[INFO] Mimi sedang makan.
[INFO] Mimi melompat-lompat
-----  
BUILD SUCCESS
```