

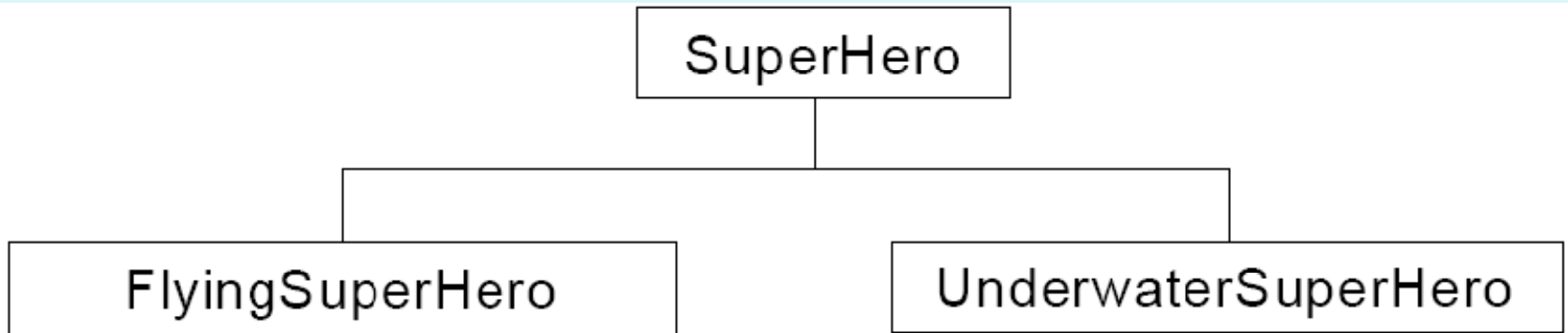
PEMOGRAMAN JAVA

Yoannita

Class(iv) [Superclass and subclass]

Pewarisan : [konsep]

Superclass dan Subclass



Gambar 1.1: Contoh Pewarisan

- *SuperHero* adalah superclass dari class *FlyingSuperHero* dan *UnderwaterSuperHero*.
- Catatan bahwa *FlyingSuperHero* “is-a” *SuperHero*.
- Sebagaimana juga *UnderwaterSuperHero* “is-a” *SuperHero*

Superclass dan Subclass

```
class orang {
    String nama, alamat;

    orang(String nama, String alamat){
        this.nama = nama;
        this.alamat = alamat;
    }

    orang(){
    }

    void tampil(){
        System.out.println("Nama : " + nama);
        System.out.println("Alamat : " + alamat);
        System.out.println("-----");
    }
}
```

```
class dmlInherit{
    public static void main(String arg[]){
        pegawai gasim = new pegawai("021013", "Gasim AlKaff", "Palembang", "STMIK MDP");
        orang ima = new orang("Fathimah Azzahra", "Palembang");
        gasim.tampil();
        ima.tampil();
    }
}
```

```
class pegawai extends orang{
    String NIP;
    String kantor;
    pegawai(String NIP, String nama, String
alamat, String kantor){
        this.NIP = NIP;
        this.nama = nama;
        this.alamat=alamat;
        this.kantor = kantor;
    }

    void tampil(){
        System.out.println("NIP : " + NIP);
        System.out.println("Nama : " + nama);
        System.out.println("Alamat : " + alamat);
        System.out.println("Kantor : " + kantor);
    }
}
```

extends merupakan kata kunci yang menyatakan bahwa class ini merupakan *subclass* dari *superclassname*.

Superclass dan Subclass : Contoh 2

```
public class Bicycle {  
    // the Bicycle class has three fields  
    public int cadence;  
    public int gear;  
    public int speed;  
    // the Bicycle class has one constructor  
    public Bicycle(int startCadence, int startSpeed, int startGear) {  
        gear = startGear; cadence = startCadence; speed = startSpeed;  
    }  
    // the Bicycle class has four methods  
    public void setCadence(int newValue) { cadence = newValue; }  
    public void setGear(int newValue) { gear = newValue; }  
    public void applyBrake(int decrement) { speed -= decrement; }  
    public void speedUp(int increment) { speed += increment; }  
}
```

Superclass dan Subclass: Contoh 2

- Deklarasi class untuk SepedaGunung yang merupakan subclass dari Sepeda mungkin akan terlihat seperti ini :

```
public class MountainBike extends Bicycle {  
    // the MountainBike subclass adds one field  
    public int seatHeight;  
    // the MountainBike subclass has one constructor  
    public MountainBike(int startHeight, int startCadence, int startSpeed, int startGear) {  
        super(startCadence, startSpeed, startGear); /* keyword super  
        seatHeight = startHeight;  
    }  
    // the MountainBike subclass adds one method  
    public void setHeight(int newValue) {  
        seatHeight = newValue;  
    }  
}
```