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1. Hewan

```java
abstract class Makan {         // abstract
    private String makanan;

    public void setMakanan(String food) {    // encapsulation (setter)
        this.makanan = food;
    }

    public String getMakanan() {     // encapsulation (getter)
        return this.makanan;
    }

    public void eat() {
        System.out.println("Makan " + makanan);
    }
}

class Karnivora extends Makan {     // inheritance
    public Karnivora() {
        setMakanan("daging");
    }

    public void eat() {
        System.out.println("Makan " + getMakanan());
    }
}

class Herbivora extends Makan {     // inheritance
    public Herbivora() {
        setMakanan("tumbuhan");
    }

    public void eat() {
        System.out.println("Makan " + getMakanan());
    }
}

class Omnivora extends Makan {     // inheritance
    public Omnivora() {
```

```java
        setMakanan("daging dan tumbuhan");
    }

    public void eat() {
        System.out.println("Makan " + getMakanan());
    }
}

public class Hewan {
    public static void main(String[] args) {
        Makan Karnivora1 = new Karnivora();      // polymorphism
        Karnivora1.eat();

        Herbivora Herbivora1 = new Herbivora();
        Herbivora1.eat();

        Omnivora Omnivora1 = new Omnivora();
        Omnivora1.eat();
    }
}
```

Screenshot Program

2. Hotel

```java
class Kamar {
    public String nama;
    public int nomor;
    public boolean status = true;

    public Kamar(int nomor) {
        this.nomor = nomor;
    }

    public String pesanKamar(String nama) {
        this.status = false;
        return this.nama = nama;
    }

    public void statusKamar() {
        if(status) {
            System.out.println("Kamar " + this.nomor + " : Kosong");
        }
        else {
            System.out.println("Kamar " + this.nomor + " : Terisi " +
this.nama);
        }
    }
}

class Pesan {
    Kamar[] kamar = new Kamar[10];

    public Pesan() {
        for(int i = 0; i < kamar.length; i++) {
            kamar[i] = new Kamar(i+1);
        }
    }
    public Kamar getRoom(int i) {
        return kamar[i-1];
    }
}

public class Hotel {
    public static void main(String[] args) {
        Pesan hoho = new Pesan();
        hoho.getRoom(1).statusKamar();
        hoho.getRoom(1).pesanKamar("Joni");
        hoho.getRoom(1).statusKamar();
        hoho.getRoom(9).statusKamar();
```

```
        hoho.getRoom(9).pesanKamar("Parker");
        hoho.getRoom(9).statusKamar();
    }
}
```

Screenshot Program