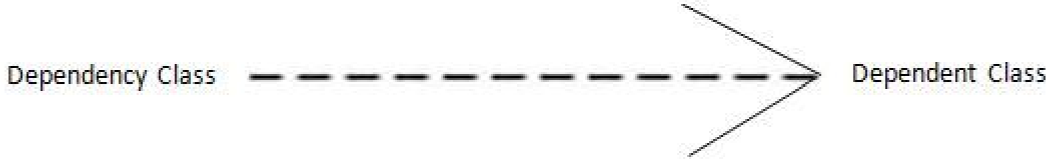
Lecture – 8

Dependency

Dependency

- Dependency is defined as a relation between two classes.
- Where one class depends on another class, but another class may or not may depend on the first class.
- So any change in one of the classes may affect the functionality of the other class, that depends on the first one.



Class A

Class B

Here, Class B depend on Class A

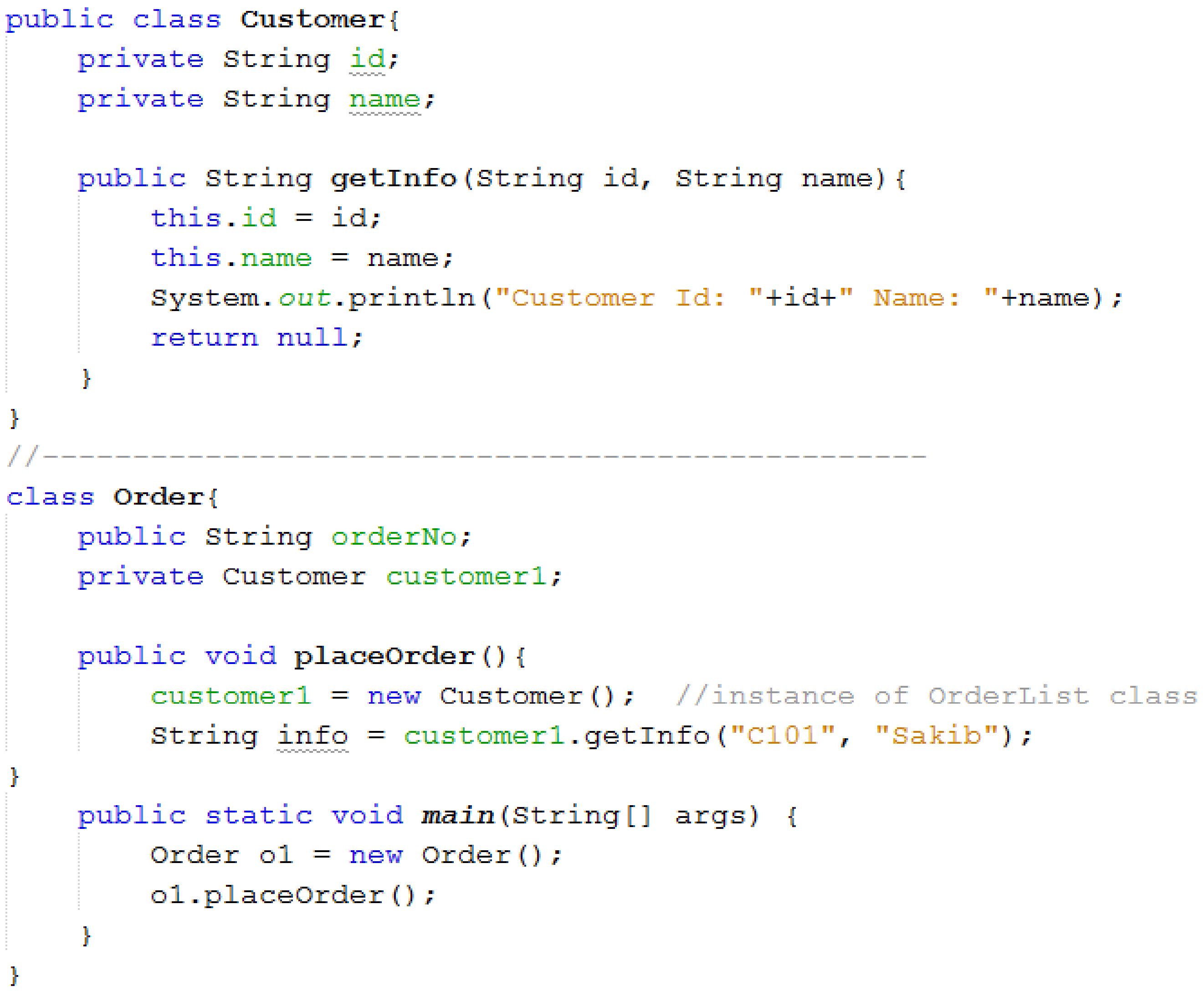
Dependency

Imagine a scenario, we have a Customer class and an Order class. When we need to save a new order, we need to save it corresponding to a customer. To do so, Order class will need a reference to the Customer class and save its data. So in this case, Order class is dependent on the Customer class. In future, if any change are made to the Customer class, it may result in changes to the Order class as well.

Let’s see the coding example in next page

Example 1: Dependency

In this code, we have Id and name as String. The Order class uses this customer instances. If we change the data type of the Id or name from String to integer, it will affect the Order class. This kind of relation is known as a Dependency.



```java
public class Customer{
    private String id;
    private String name;

    public String getInfo(String id, String name){
        this.id = id;
        this.name = name;
        System.out.println("Customer Id: "+id+" Name: "+name);
        return null;
    }
}
//--------------------------------------------------
class Order{
    public String orderNo;
    private Customer customer1;

    public void placeOrder(){
        customer1 = new Customer();   //instance of OrderList class
        String info = customer1.getInfo("C101", "Sakib");
}
    public static void main(String[] args) {
        Order o1 = new Order();
        o1.placeOrder();
    }
}
```

Thank You