Object Oriented Programming with Java (OOPJ)

Session 5: Arrays

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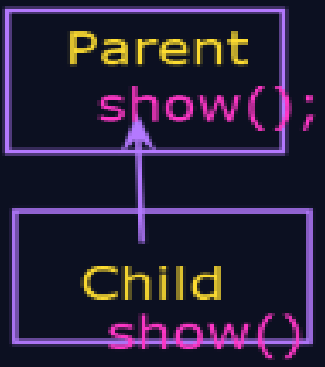
```java
class Parent{
    void show(){
        System.out.println("Parent Method: P1");
    }
}

class Child extends Parent{
    void show(){
        super.show();//Parent class method : call
        System.out.println("Child Method: C1");
    }
}
class OverridingDemo5{
    public static void main(String

        Parent p = new Parent();
        p.show();//Parent class : s


        Child c = new Child();
        c.show();//Child class : sh
```




```
C:\WINDOWS\system32
C:\Test>javac OverridingDemo5.java

C:\Test>java OverridingDemo5
Parent Method: P1
Child Method: C1

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C:\Test>java OverridingDemo5
Parent Method: P1
Parent Method: P1
Child Method: C1

C:\Test>
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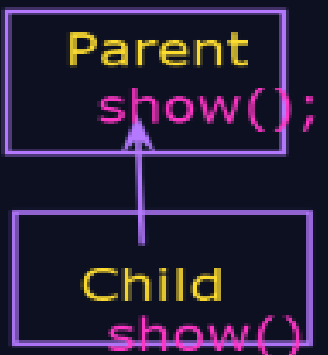


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Parent Method: P1
Child Method: C1

C:\Test>
```

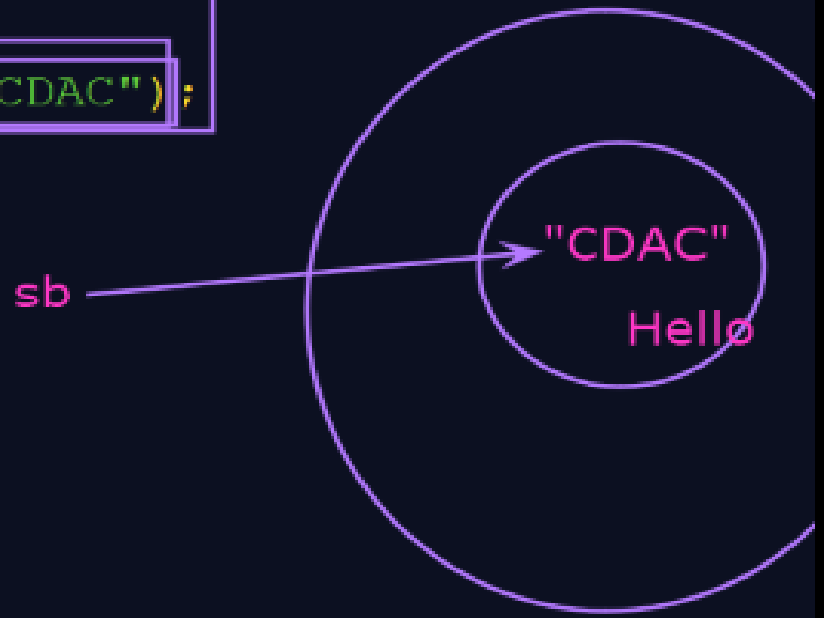
```java
//Immutable Reference
// A final refernce variable cannot be reassigned, but the object's content
change.
class FinalDemo6{
    public static void main(String args[]){//method

    final StringBuilder sb = new StringBuilder("CDAC");
    //sb=Immutable reference, Object
    System.out.println(sb);

    sb.append("JUHU-Kharghar");
    System.out.println(sb);

    sb = new StringBuilder("Hello");//Error

    }
}
```



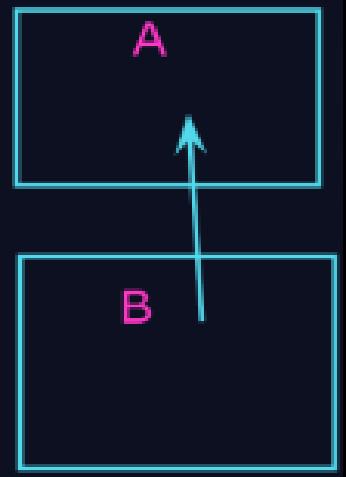
```java
class A{
    void show(){
        System.out.println("Parent class");
    }

}
class B extends A{
    void show(){
        System.out.println("Child class");
    }

}
class UpcastingDemo{
    public static void main(String args[]){//method

            A a1 = new A();
            B b1 = new B();
            A a2 = new B();// Upcasting : Polymophism


    }
```



```
-----------------------------------------------
1. Nulling a Reference variable:

Test t1 = new Test();
Test t2 = new Test();

t1 = null;//Object is now eligible for GC
t2 = null;

2. Re-Assigning a Reference Variable:

Test t1 = new Test();
Test t2 = new Test();
Test t3 = new Test();

t1=t2;
t3=t2;

3. Island of Isolation:

Test t1 = new Test();
Test t2 = new Test();
Test t3 = new Test();
```