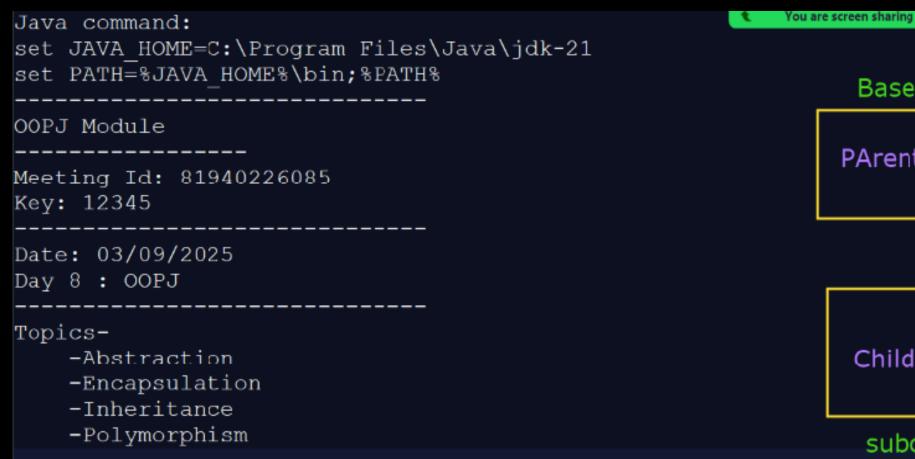


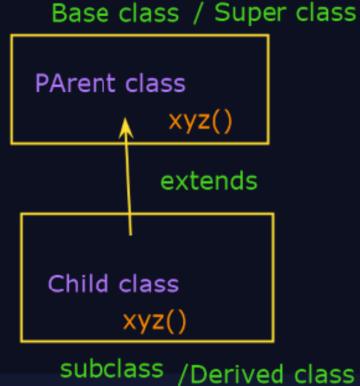


Object Oriented Programming with Java (OOPJ)

Session 8: OOPS Pillar

Kiran Waghmare



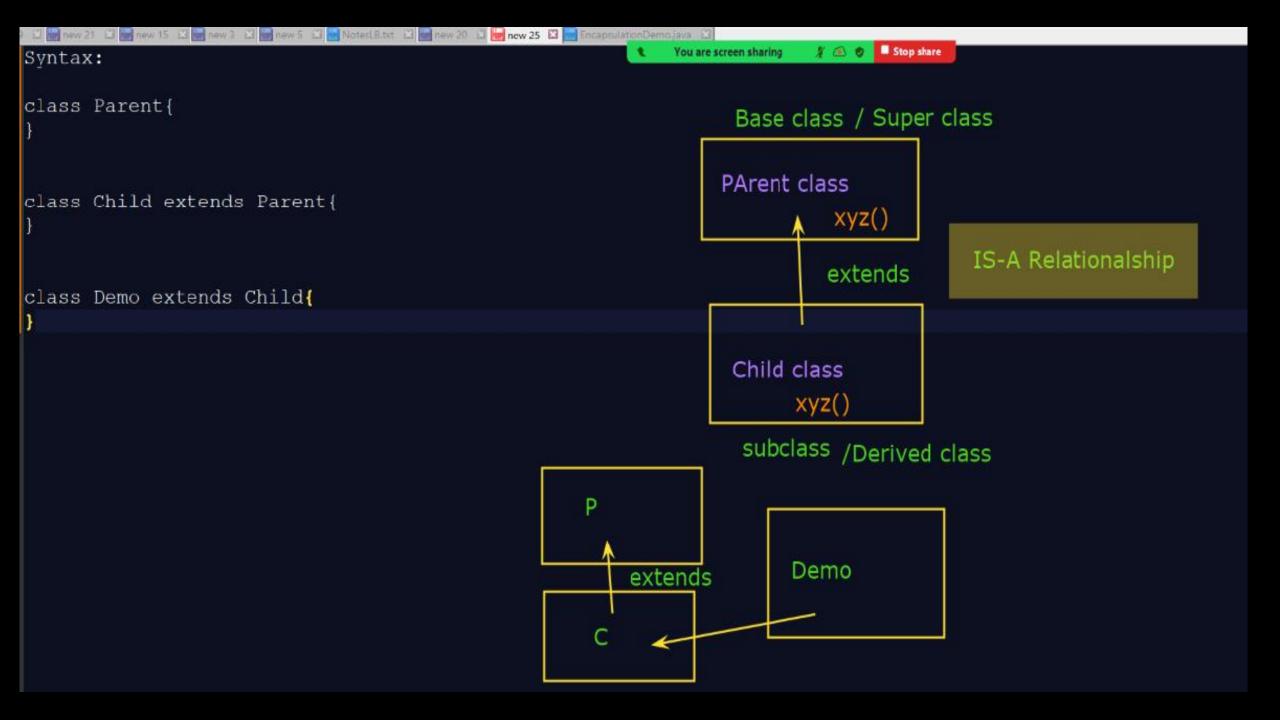


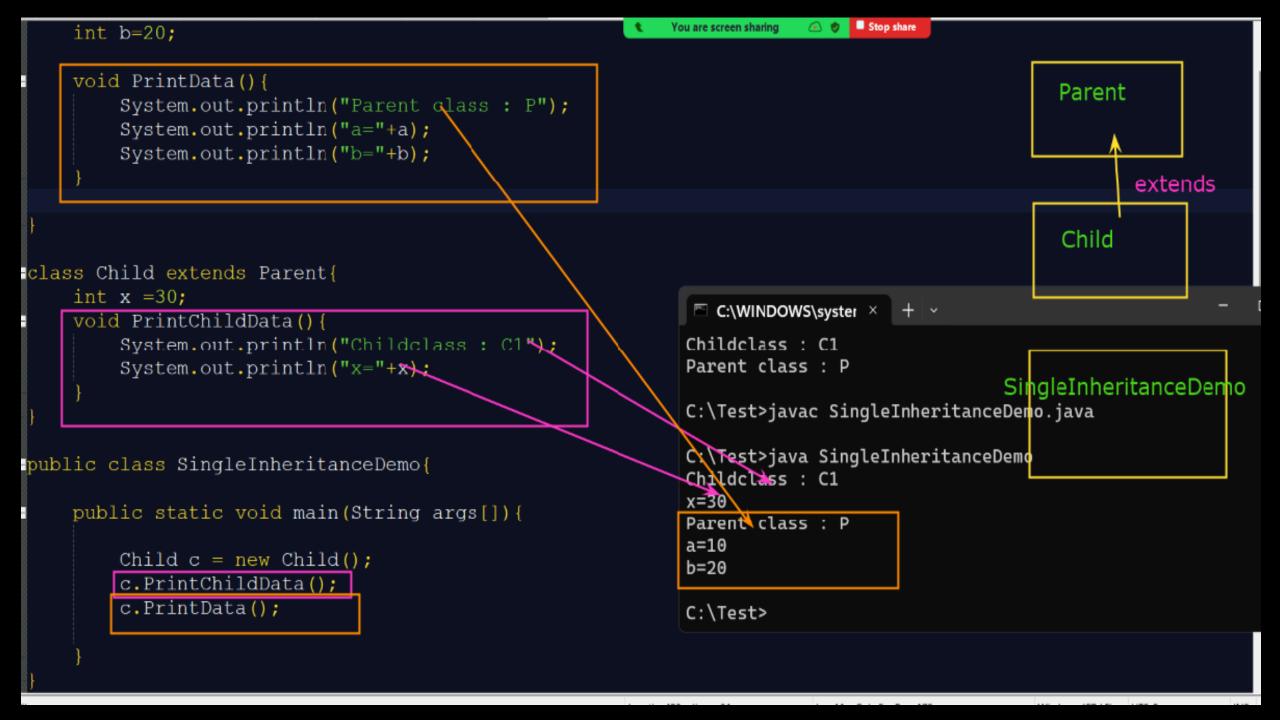
class: A blueprint for creating objects.

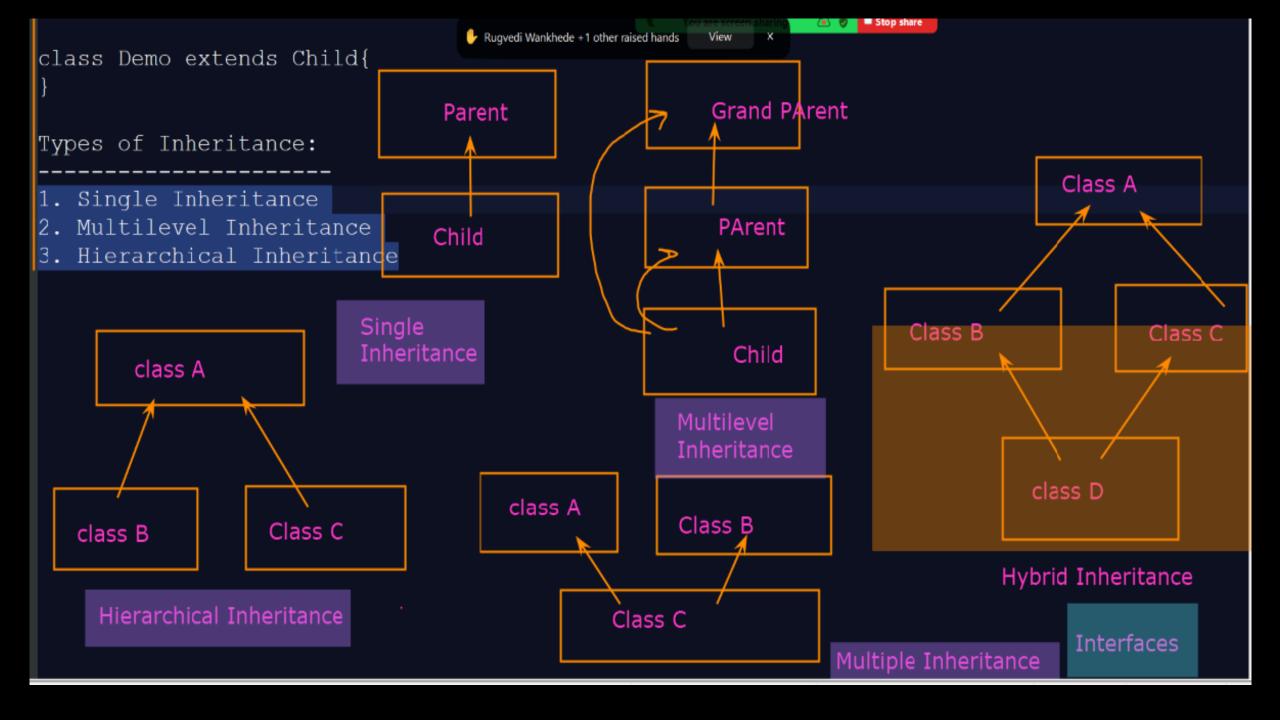
Super class (Parent class): The class whose properties are inherited Sub class (child class): The class that inherits properties from another class Reusability: Using existing methods and filelds of a super class in a subclass.

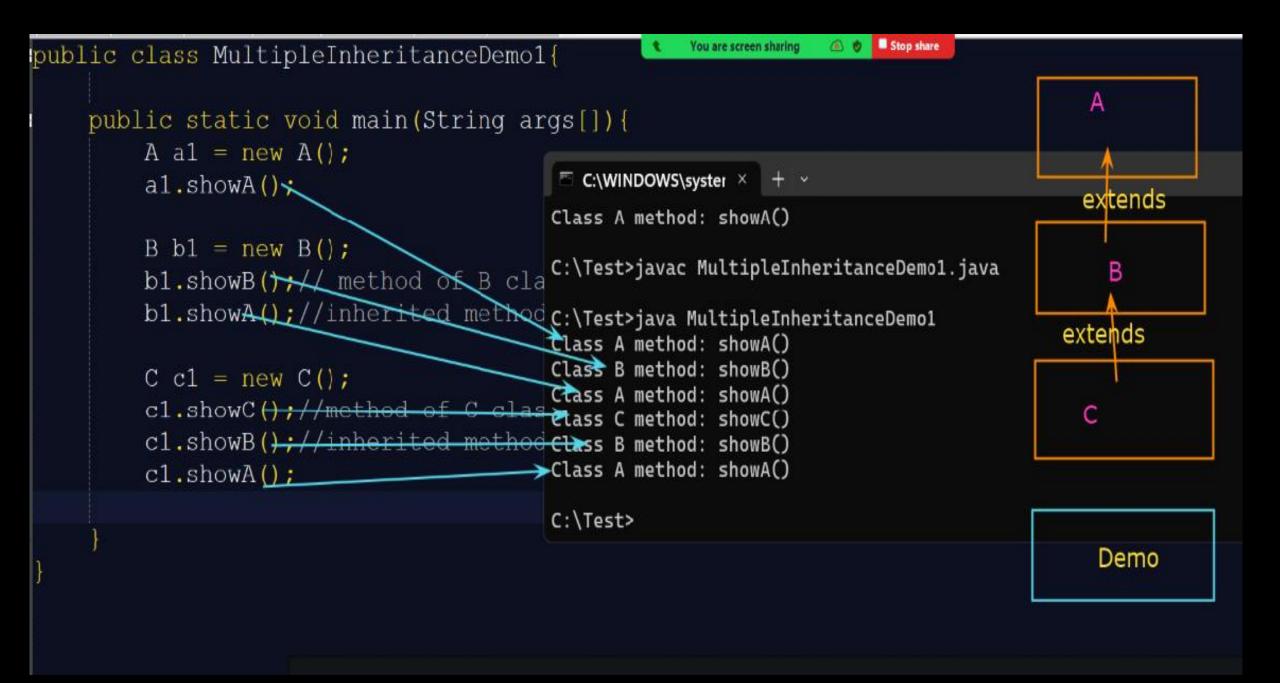
PArent class xyz() extends Child class xyz()

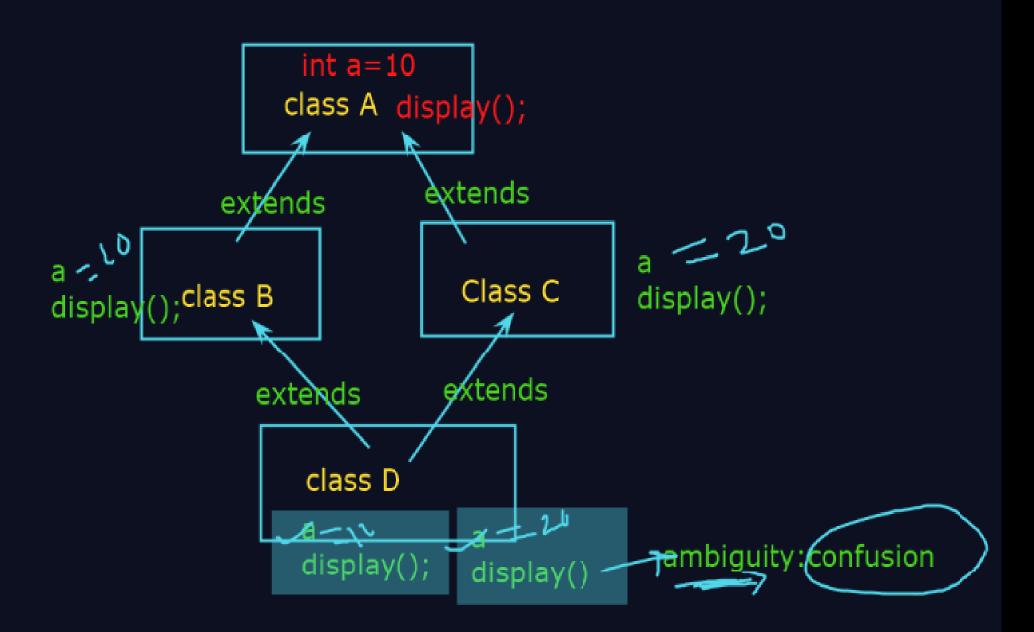
subclass /Derived class



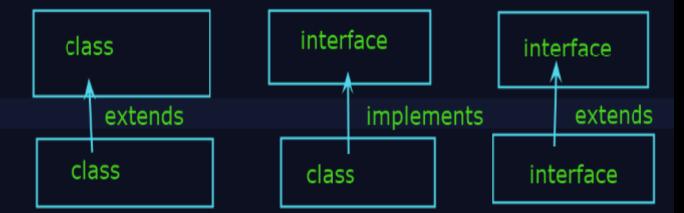


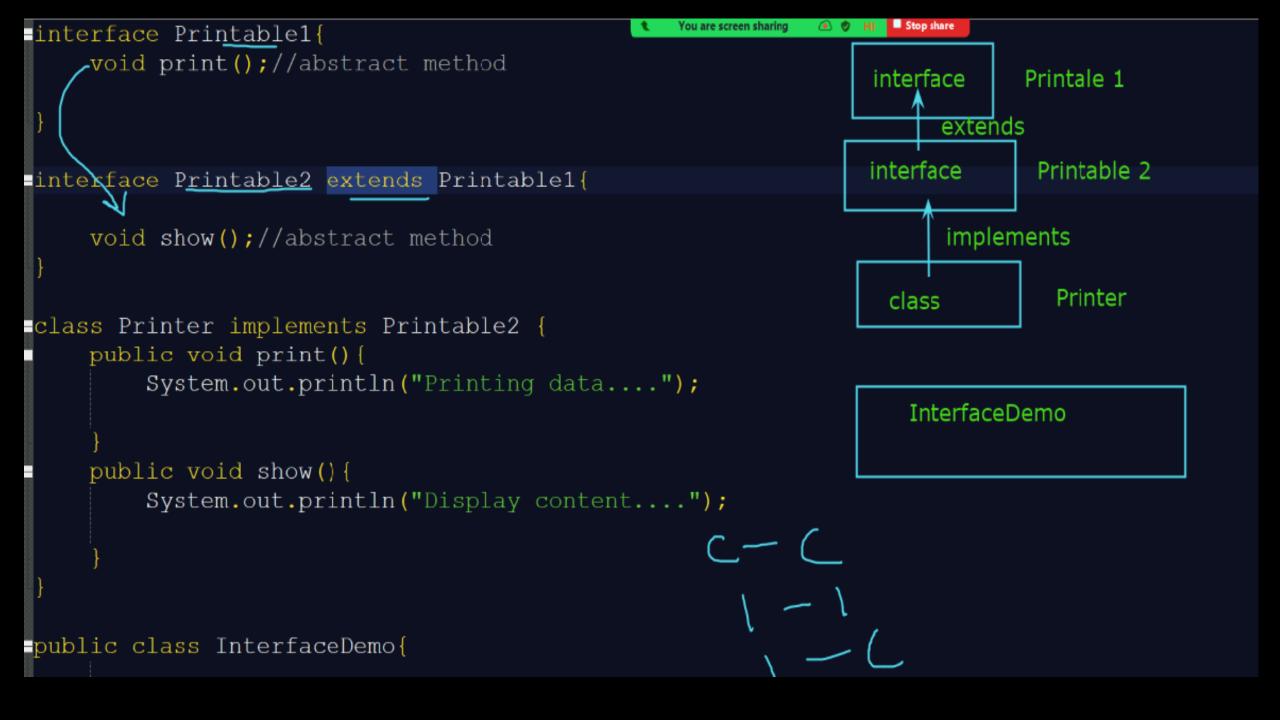






```
interface Book{
    //constant variable
    int x=100;
    //abstract method
    void read();
    //default method: Java 8+
    void show(){
    SOP()
    //static method : Java 9+
    static void display() {
        SOP();
    //Private methods : Java 9+
    private void print(){
```





```
    Inheritance is manadatory

-method overriding can occur when subclass inherits parent class
3. Access modifiers
private
default
protected
public
Ex: parent class= public : child class : public
Ex: parent class= protected : child class :protected , public
Ex: parent class= default : child class : default, protected , public
Important Note:
-private: cannot inherit
-satic: can be redefined but not overridden
                                       Public
-final: cannot be override
                                         Protected
                                               default
```