

Interface(e.g., Java)

• Enables multiple inheritance

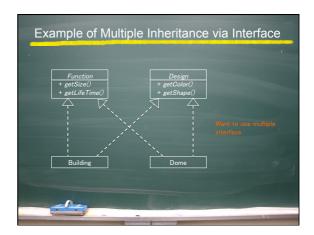
• Only Design

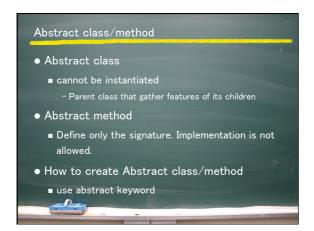
• Implementation is written in another class

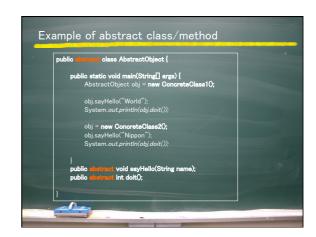
• Use composite pattern to reuse

- handle the same objects that has implements the same interface

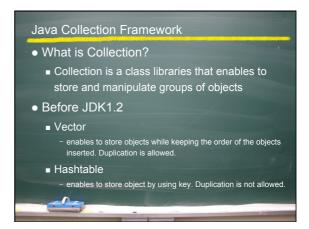
- make tree structure and program against abstract level







Summaries of abstract class/method
Concrete class need to implement abstract methods
Abstract method can only defined in an abstract class
Abstract class does not always include abstract methodd
Abstract class cannot be initialized



Java Collection Framework

■ Introduced from JDK1.2

■ Vector, Hashtable are included.

■ Map - Objects are stored by key. Duplication is NOT allowed.

■ List - Objects are stored with the order. Duplication is allowed

■ Set - Objects are stored with the order. Duplication is NOT allowed

