

Java ☐☐ - Type Casting

[illegible]Casting ☐ ☐ ☐ ☐

```
class Animal {
    void speak(){
        System.out.println("Default speak");
    }
}
```

```
class Bird extends Animal {
    @Override
    void speak() {
        System.out.println("☐☐ ");
    }
}
```

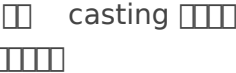


























```
class Dog extends Animal {
    @Override
    void speak() {
        System.out.println("🐶");
    }
}
```

```
public class main {  
    public static void main(String[] args) {  
        Animal animal = new Animal();  
        Bird bird = new Bird();  
        Dog dog = new Dog();  
  
        animal.speak();  
        bird.speak();  
        dog.speak();  
  
        // Upcasting and Downcasting
```

```
Animal animal2;
animal2 = bird; // Upcasting
animal2.speak(); // works normally
```

```
Bird bird2;
// bird2 = animal; // Down casing, compile error
// bird2 = (Bird)animal; // Compile pass
// bird2.speak(); // but throw ClassCastException error
```

```
Dog dog2;
// dog2 = bird; // Obviously not working for compiling
// dog2 = (Dog)bird; // Cannot casting to another child class, compile error.
}
```

- Bird  Animal  Upcasting  Upcasting 
-  animal casting  Bird  Animal  Bird 
 -  Downcasting  Compiler 
-  (Bird)animal  Compiler  Compiler 
 -  ClassCastException  Runtime error  JVM 
-  Animal  class
  Compiler  ...
 -  Compiler 

Revision #1

Created 28 June 2024 07:04:50 by Nesquate

Updated 28 June 2024 07:19:36 by Nesquate