

```
// Parent class: Animal
class Animal {
    void eat() {
        System.out.println("This animal eats food.");
    }
}
// Single Inheritance: Mammal extends Animal
class Mammal extends Animal {
    void walk() {
        System.out.println("Mammals can walk.");
    }
}
// Multilevel Inheritance: Dog extends Mammal
class Dog extends Mammal {
    void bark() {
        System.out.println("Dogs can bark.");
    }
}
// Main class to test inheritance
public class InheritanceDemo {
    public static void main(String[] args) {
        // Object of Dog class (inherits from Mammal and Animal)
        Dog dog = new Dog();
        // Calling methods from different levels of inheritance
        dog.eat(); // From Animal class
        dog.walk(); // From Mammal class
        dog.bark(); // From Dog class
    }
}
```

Project ▾



InheritanceDemo.java ×

Run

InheritanceDemo ×



```
C:\Users\admin\.jdk\openjdk-23.0.1\bin\java.exe "-javaagent:F:\IntelliJ IDEA Community Edition 20
```

```
This animal eats food.
```

```
Mammals can walk.
```

```
Dogs can bark.
```

```
Process finished with exit code 0
```