

WEEK

3

```
class Animal {  
    void makeSound() {  
        System.out.println("Animal makes sound");  
    }  
  
}  
  
class Dog extends Animal {  
    void makeSound() {  
        System.out.println("Dog Barks");  
    }  
  
}  
  
public class AnimalMain {  
    Run | Debug | Run main | Debug main  
    public static void main(String[] args) {  
        Animal a = new Animal();  
        Dog d = new Dog();  
        a.makeSound();  
        d.makeSound();  
    }  
}
```

```
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> javac AnimalMain.java  
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> java AnimalMain  
Animal makes sound  
Dog Barks
```

```
class Vehicle {
    int speed = 50;
}

class Bike extends Vehicle {
    int speed = 100;

    void display() {
        System.out.println("Vehicle speed: " + super.speed);
        System.out.println("Bike speed: " + speed);
    }
}

public class VehicleMain {
    Run | Debug | Run main | Debug main
    public static void main(String[] args) {
        Bike b = new Bike();
        b.display();
    }
}
```

```
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> javac VehicleMain.java
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> java VehicleMain
Vehicle speed: 50
Bike speed: 100
```

```
class Person {
    String name;

    Person(String name) {
        this.name = name;
    }
}

class Student extends Person {
    int grade;

    Student(String name, int grade) {
        super(name);
        this.grade = grade;
    }

    void display() {
        System.out.println("Name: " + name);
        System.out.println("Grade: " + grade);
    }
}

public class personstudent {
    Run | Debug | Run main | Debug main
    public static void main(String[] args) {
        Student s = new Student(name: "Shravan", grade: 22);
        s.display();
    }
}
```

```
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> javac personstudent.java
```

```
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> java personstudent
```

```
Name: Shravan
```

```
Grade: 22
```