

```
class Example {  
    int instanceVar; // Instance variable  
    static int classVar; // Class variable  
  
    void method() {  
        int localVar = 5; // Local variable  
    }  
}
```

```
class Car {  
    // Fields  
    String model;  
    int year;  
  
    // Method  
    void displayInfo() {  
        System.out.println("Model: " + model + ", Year: " + year);  
    }  
}
```

```
class Car {  
    String model;  
    int year;  
  
    // Default constructor  
    Car() {  
        model = "Unknown";  
        year = 2000;  
    }  
  
    void displayInfo() {  
        System.out.println("Model: " + model + ", Year: " + year);  
    }  
}
```

```
public class Main {  
    public static void main(String[] args) {  
        Car myCar = new Car(); // Calls the default constructor  
        myCar.displayInfo(); // Output: Model: Unknown, Year: 2000  
    }  
}
```

```
class Car {
    String model;

    // Constructor with 'this' keyword
    Car(String model) {
        this.model = model; // 'this.model' refers to the instance variable
    }

    void displayInfo() {
        System.out.println("Model: " + model);
    }
}
```

```
public class Main {
    public static void main(String[] args) {
        Car myCar = new Car("BMW");
        myCar.displayInfo(); // Output: Model: BMW
    }
}
```

```
public class WrapperClassExample {
    public static void main(String[] args) {
        int primitiveInt = 10;
        Integer wrapperInt = Integer.valueOf(primitiveInt);

        System.out.println("Primitive int: " + primitiveInt);
        System.out.println("Wrapper int: " + wrapperInt);

        // Convert wrapper int to primitive int
        int convertedPrimitiveInt = wrapperInt.intValue();
        System.out.println("Converted primitive int: " + convertedPrimitiveInt);
    }
}
```

```
import java.util.Scanner;
```

```
public class ScannerExample {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter your name: ");
        String name = scanner.nextLine();

        System.out.print("Enter your age: ");
```

```
int age = scanner.nextInt();

System.out.println("Name: " + name);
System.out.println("Age: " + age);

scanner.close();
}
}
```

```
interface Animal {
    void sound(); // Abstract method
    void eat(); // Abstract method }

class Dog implements Animal {
    public void sound() { System.out.println("Dog barks"); }
    public void eat() { System.out.println("Dog eats bones"); } }

public class Main {
    public static void main(String[] args) {
        Animal dog = new Dog();
        dog.sound();
        dog.eat(); } }
```

```
interface Vehicle { void drive(); }
interface Car extends Vehicle { void fuelType(); }

class Sedan implements Car {
    public void drive() { System.out.println("Sedan drives smoothly."); }
    public void fuelType() { System.out.println("Uses petrol or diesel."); }
}
```
