

Module 2

instanceof operator in JAVA

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- It allows developers to verify whether an object is an instance of a specific class, subclass, or interface.
- This operator is particularly useful in situations where your code interacts with objects that have a hierarchical relationship, such as with inheritance or interfaces.

instanceof operator in Java

- The instanceof operator is used in a binary fashion, where it takes an object reference on the left side and a class name on the right side.
- If the object is an instance of the given class or interface, or one of its subclasses, the operator returns true. Otherwise, it returns false.

instanceof operator in Java

```
class Animal {}
```

```
class Dog extends Animal {}
```

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        Animal animal = new Dog();
```

```
        boolean result = animal instanceof Dog; // true
```

```
        System.out.println("animal is an instance of  
Dog: " + result);
```

```
    }
```

```
}
```