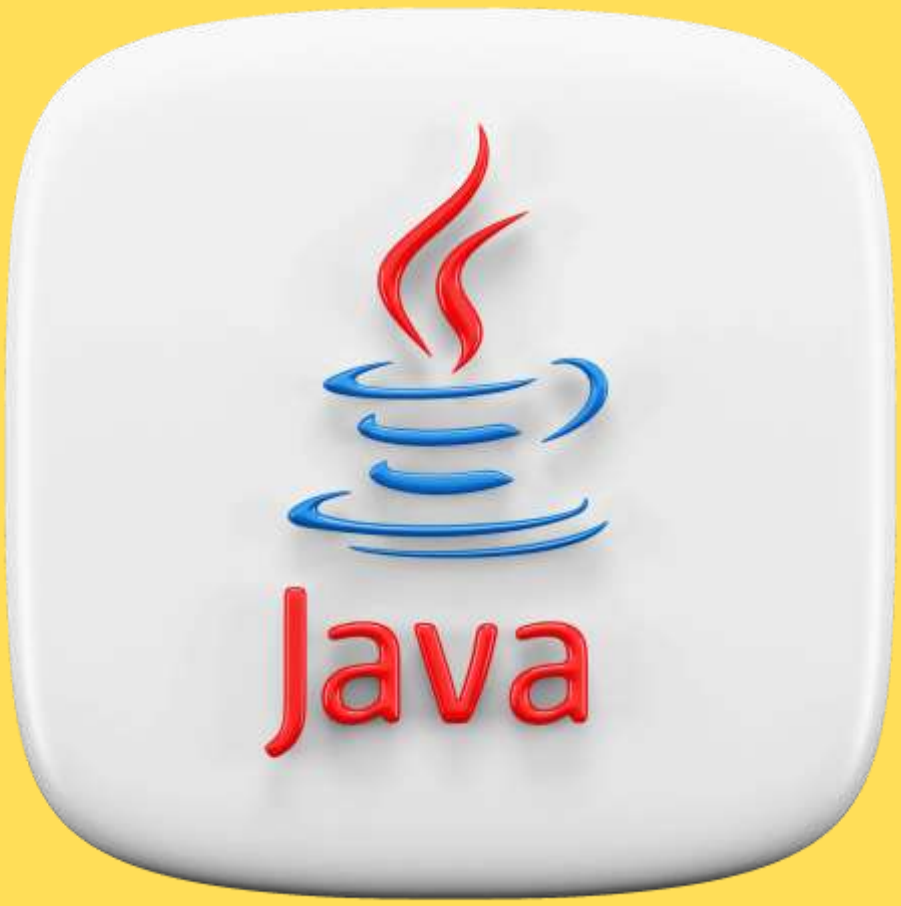
Developer Tips

Susant Kumar

Java

Five Best Practices For Writing Java Code



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1. Use Meaningful Variable Names

Good variable names make your code more readable and maintainable.

```
// Bad
int a = 10;
int b = 5;
int c = a + b;

// Good
int num1 = 10;
int num2 = 5;
int sum = num1 + num2;
```

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2. Follow Coding Conventions

Adhere to Java naming conventions (e.g., camelCase for variables, PascalCase for classes).

```
// Bad
int myinteger = 42;

// Good
int myInteger = 42;
```

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3. Use Comments for Documentation

Document your code with comments to explain complex logic or important details.

```
// Bad
// Increment i by 1
i++;

// Good
// Increment the loop counter by 1
i++;
```

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4. Handle Exceptions Gracefully

Always use try-catch blocks to handle exceptions and provide meaningful error messages.

```java
// Bad
try {
    // Risky code
} catch (Exception e) {
    System.out.println("Error!");
}

// Good
try {
    // Risky code
} catch (Exception e) {
    System.err.println("An error occurred: " + e.getMessage());
}
```

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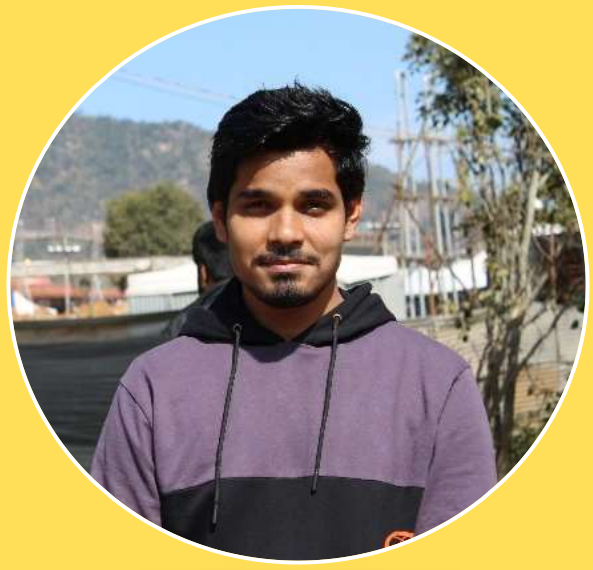
5. Use Generics for Type Safety

When working with collections, use generics to ensure type safety and avoid casting.

```java
// Bad
ArrayList list = new ArrayList();
list.add("Hello");
String str = (String) list.get(0);

// Good
ArrayList<String> list = new ArrayList<>();
list.add("Hello");
String str = list.get(0);
```

Swipe



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