

A grayscale photograph of a person with dark hair wearing large headphones, looking intently at a laptop screen. Their hands are clasped near their chin in a thoughtful pose. The background is blurred, showing what appears to be an office or studio environment with other people and equipment.

THE OPEN CLOSED PRINCIPLE

Java Clean code

Outline

Lesson 6.

The Single Responsibility
Principle

Lesson 7.

The Open Closed Principle

Lesson 8.

The Liskov Substitution Principle

Lesson 9.

The Interface Segregation
Principle

Lesson 10.

The Dependency Inversion
Principle

*Any fool can write code that
a computer can understand.
Good programmers write code that
humans can understand.*

Martin Fowler



The Open Closed Principle

- Classes and methods should be open for extension but closed for modification.
- What does it mean?
- Add new code
- Do not change old code



OCP

Interfaces instead super classes.

- Substitute code
- Interfaces are closed fro modifications
- Additional abstraction(Loose coupling)
- No need to share code
- Spring Framework





Strategy pattern

- Open to extension
- Encapsulate strategies
- `Collections.sort`

A photograph of three people (two men and one woman) standing around a white table, looking at a laptop. The man on the left is sitting on a stool, leaning over the table. The man in the middle is standing and pointing at the laptop. The woman on the right is standing and looking at the laptop. They are in a room with a perforated wall.

Open Closed Principle Summary

- New features are added by adding new code.
- Not by modifying the old code.

Course Progress

Lesson 6

The Single
Responsibility
Principle

Lesson 7

The Open
Closed Principle

Lesson 8

The Liskov
Substitution
Principle

Lesson 9

The Interface
Segregation
Principle

Lesson 10

The Dependency
Inversion
Principle

A sepia-toned photograph of a person clapping their hands. In the foreground, a wooden desk holds a laptop, an open notebook, and a smartphone. A dark grey rectangular box with a thin white border is overlaid on the left side of the image, containing the text 'THANK YOU!'.

THANK YOU!