



**MONASH**  
University

MALAYSIA

# **FIT 2099 Object oriented design and implementation**

S1 2022

4 April 2022



# Agenda

- Walk through Week 6.
- Flux.qa ([flux.qa/KYY88M](https://flux.qa/KYY88M))
- Q & A sessions





# Week 6: SOLID principles

- **S**ingle Responsibility Principle (SRP)
  - Each class should have **one responsibility**
- **O**pen Closed Principle (OCP)
  - **add new methods easily, doesn't change** the way the existing code is used.
- **L**iskov Substitution Principle (LSP)
  - **should always be able to use an instance of a subclass when the code is expecting an instance of the base class**
- **I**nterface Segregation Principle (ISP)
  - Keep interfaces **small**
- **D**ependency Inversion Principle (DIP)
  - high level modules depend on **interfaces** rather than detailed low-level code

# RECAP Week 2: Three core design principle

- Principle A DRY (Don't repeat yourself)
- Principle B Classes should be responsible for their own properties.
- Principle C Avoid excessive use of literals



# Thank you

Email: [fit2099.malaysia-x@monash.edu](mailto:fit2099.malaysia-x@monash.edu)

