

Agenda

- Review / QA
- Encapsulation
- Assignment 2

Encapsulation

- **Encapsulation** is one of the four fundamental OOP concepts
- Encapsulation in Java is a mechanism of wrapping the data (variables) and code acting on the data (methods) together as a single unit.
- In encapsulation, the variables of a class will be hidden from other classes and can be accessed only through the methods of their current class.
- Therefore, it is also known as **data hiding**.

To achieve encapsulation in Java –

- Declare the variables of a class as private.
- Provide public setter and getter methods to modify and view the variables values.

Benefits of Encapsulation

- The fields of a class can be made read-only or write-only.
- A class can have total control over what is stored in its fields.