

CISC 3115 TY2

The final Modifier

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Notice

- The slides are subject to change.

Outline

- Discussed in this module
 - Inheritance
 - Superclass/supertype, subclass/subtype
 - Inheritance and constructors in Java; Inheritance and instance methods in Java
 - The Object class in Java
 - Concept of Polymorphism; Polymorphism via inheritance; Dynamic binding
 - Type casting in a type hierarchy; instanceof
 - Public, (no modifier)/default, protected, and private visibility modifier.
- The final modifier
 - Why do we need it?
 - How do we design programs with it?

The final Modifier

- Q1. where can you use the final modifier?
- Q2. why do we need it?

Applying the final Modifier

- Applying the final modifier to a variable
 - The value of the variable cannot be changed, i.e., the variable is intended to be a constant
- Applying the final modifier to a method
 - The implementation of the method cannot be changed, i.e., the method cannot be overridden by the class's subclasses.
- Applying the final modifier to a class
 - The class hierarchy cannot grow downward from the class, i.e., the class cannot be extended.

Examples

- Let's make Java compiler complain.

Questions?

- The final modifier
- Where can we use it?
 - To variable
 - To method
 - To class
- Meaning?