1 IMPORTANT

If possible bring your own laptop to these labs so you can learn to install and work with an IDE. A couple of popular IDEs for Java development are IntelliJ and Eclipse. We recommend using IntelliJ because of its robust ecosystem, intuitive interface, and reliability.

2 Goals

Step 1: Research what IDE to install and complete the prelab by installing and configuring an IDE

Step 2: Experience using an IDE and tools it provides like the debugger, compilation, and Git integration

Step 3: Become familiar with the general Java vocabulary and idiomatic practices

Step 4: Experience implementing Java software starting with basic concepts like:

A. I/O
B. Primitive types
C. Functionality of main
D. Instantiating class objects
E. Inheritance
F. Recursion

Step 5: Complete the self check quizes as a knowledge check

Step 6: If everything is completed then move on to the optional advanced topics of:

A. Useful usage of static and initialization blocks
B. Using Java collections and iterators and creating your own generic types
C. Interfaces versus Abstract Classes and psuedo-multiple inheritance