



Wednesday: 1<sup>st</sup> Midterm Exam

## Syntax for invoking methods

- Essentially: methodName(list of arguments); - Effect - transfers control to the method named; may "pass" data via the list of arguments
  - When method completes control returns to the point in the program where the method was called
    Also returns a result if not a void method
- Need more if method defined in a different class - Full syntax is objectReference.methodName(...)
  - Or just ClassName.name() if method is static

## Aside – using dialog boxes

- Simplest type of GUI (Graphical User Interface) - Import javax.swing.JOptionPane
- Message dialogs show user something – e.g., a String (and other types of objects)
- Input dialogs get a String from the user – Must parse string to convert to numbers/other
- See <u>NameDialog.java</u> (Fig 3.18, p. 97) - and try GUI/Graphics Case Study Exercise 3.1 (p. 98)



 A fact: any algorithm can be written as a combination of sequence, selection, &/or iteration structures

## Java has 7 control structures

- 1<sup>st</sup> is trivial: sequence structure
- 3 choices of selection structures:
  - if
  - if/else
  - switch
- 3 choices of iteration structures ("loops"):
  - while
  - for
  - do/while





