CIS 1068

March 13, 2018
Administrative Stuff

- Assignment 6 due today
- Assignment 7 posted
World’s Most Lame Calculator
How It Should Work

- Welcome message
- Menu. Choices: add, subtract, multiply, divide, quit
- Until the user quits:
  1. Which operation?
  2. Read operands
First Pass: Outline

print menu
get choice
while (choice isn't to quit)
   get operand 1
   get operand 2
   calculate result
print menu
get choice
2nd pass: turn bullet points into static methods

```java
printMenu();
choice = getChoice();
while (choice isn't to quit) {
    int operand1 = getOperand();
    int operand2 = getOperand();
    int result = getResult();
    printMenu();
    choice = getChoice();
}
```
What might we need to pass to these?

```java
printMenu();
choice = getChoice();
while (choice isn't to quit)
    int operand1 = getOperand();
    int operand2 = getOperand();
    int result = getResult();
printMenu();
choice = getChoice();
```
printMenu();
choice = getChoice();
while (choice isn't to quit)
    int operand1 = getOperand();
    int operand2 = getOperand();
    int result = getResult();
printMenu();
choice = getChoice();
/* prints each of the menu options */
public static void printMenu() {
    /* add me later */
    /* we call this a "stub" */
}
printMenu();
choice = getChoice();
while (choice isn't to quit) {
  int operand1 = getOperand();
  int operand2 = getOperand();
  int result = getResult();
  printMenu();
  choice = getChoice();
}
Menu Choices

How about this? Press:

▶ 1 to add
▶ 2 to subtract
▶ 3 to multiply
▶ 4 to divide
▶ 5 to quit
Define Named Constants

public static final int ADD=1;
public static final int SUBTRACT=2;
public static final int MULTIPLY=3;
public static final int DIVIDE=4;
public static final int QUIT=5;