

OOSD: Practice Problems 3

1. Write a Java program *Hello.java* that expects a name to be given on the command line. It takes that name, say George, and prints the message: Hello, George. If the command line argument is missing, the program prints: Usage: java Hello <name>.
2. Write a Java program *SumInts.java* that expects a list of integers on the command line. It prints the sum of these numbers.

For example

```
% java SumInts 20 44 31 -10 56
141
```

3. Find out what the compiler says when you try
 - a) to extend a final class
 - b) to override a final method
 - c) to change a final variable
4. List all of the user-defined identifiers in the programs that you wrote for problems 1 and 2. Classify the identifiers as Module, Method, or Variable identifiers.
5. Find out what the compiler says when you try to hide a local variable in an outer scope with another local variable in an inner scope.
6. Explain how you can get access to a class variable and an instance variable inside another method where a local variable hides the variable that you want to use.