Java Programming

9-1: Java Bytecode

Practice Activities

Lesson Objectives:

- Why understand bytecode?
- How to obtain the bytecode listings
- How to read the bytecode
- How the language constructs are mirrored by the compiler: calculation, method calls

Vocabulary:

Identify the vocabulary word for each definition below.

	The opcode that will duplicate the top operand stack value
	The opcode that gets the static field from class
	The opcode that adds two integer values

Try It/Solve It:

1. Based on the following bytecode, try to convert back to the Java source code

Code：

```
0: iconst_1
1: istore_0
2: iload_0
3: iconst_1
4: iadd
5: istore_0
6: return
```

2. Based on the following bytecode, try to convert back to the Java source code

Code:

```
0: iconst_1
1: istore_0
2: iinc        0, 1
5: return
```