JLiteralFalse.java

```
// Copyright 2013 Bill Campbell, Swami Iyer and Bahar Akbal-Delibas
1
2
3
    package jminusminus;
4
5
    import static jminusminus.CLConstants.*;
6
7
     * The AST node for the boolean "false" literal.
8
9
10
11
    class JLiteralFalse extends JExpression {
12
13
         * Construct an AST node for a "false" literal given its line number.
14
15
16
         * @param line
                      line in which the literal occurs in the source file.
17
         */
18
19
20
        public JLiteralFalse(int line) {
21
            super(line);
22
        }
23
24
         * Analyzing a boolean literal is trivial.
           Assignment Project Examination
27
          @return the analyzed (and possibly rewritten) AST subtree.
29
31
        public JEXPRETIONS and 1/20 WC to Glest, COM
            type = Type.BOOLEAN;
34
            return this;
        }
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37
         * Generating code for a boolean literal means generating code to push it
         * onto the stack.
39
40
         * @param output
41
                      the code emitter (basically an abstraction for producing the
42
43
                      .class file).
44
45
46
        public void codegen(CLEmitter output) {
47
            output.addNoArgInstruction(ICONST_0);
48
        }
49
50
          Generating branch code for a boolean literal is trivial; it's either
51
          empty or an unconditional branch.
54
           @param output
                      the code emitter (basically an abstraction for producing the
                      .class file).
         * @param targetLabel
57
                      the label to which we should branch.
          @param onTrue
                      do we branch on true?
         */
61
62
63
        public void codegen(CLEmitter output, String targetLabel, boolean onTrue) {
64
            if (!onTrue) {
                output.addBranchInstruction(GOTO, targetLabel);
65
            }
66
```

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