## JThis.java

```
// Copyright 2013 Bill Campbell, Swami Iyer and Bahar Akbal-Delibas
1
2
3
    package jminusminus;
4
5
    import static jminusminus.CLConstants.*;
6
7
     ^{\ast} The AST for a "this" expression. It serves as a target of some field
8
     * selection or message.
9
10
11
12
    class JThis extends JExpression {
13
14
         * Construct an AST node for a "this" expression given its line number.
15
16
17
         * @param line
                       line in which the expression occurs in the source file.
18
         */
19
20
        public JThis(int line) {
21
22
            super(line);
23
        }
24
25
         * Analysis involves simply determining the type in which we are, since that
26
           Assignment Project Exam Help
27
28
         * @param context
29
                       context in which names are resolved.
         \begin{tabular}{ll} * @ return & the analyzed (and possibly rewritten) & AST & subtree. \\ */ & DOWCOGET.COM \end{tabular}
31
34
        public JExpression analyze(Context context) {
            type = ((JClassDeclaration) context.classContext.definition())
            return At Oldyp W: eChat powcoder
37
        }
39
40
         * Simply generate code to load "this" onto the stack.
41
42
         * @param output
43
                       the code emitter (basically an abstraction for producing the
44
45
                       .class file).
         */
46
47
48
        public void codegen(CLEmitter output) {
49
            output.addNoArgInstruction(ALOAD_0);
50
51
52
         * inheritDoc
54
        public void writeToStdOut(PrettyPrinter p) {
57
            p.println("<JThis/>");
58
59
    }
61
```