JFormalParameter.java

```
// Copyright 2013 Bill Campbell, Swami Iyer and Bahar Akbal-Delibas
1
2
3
    package jminusminus;
4
5
    ^{\ast} The AST node for a formal parameter declaration. All analysis and code
6
     * generation is done in a parent AST.
7
8
9
10
   class JFormalParameter extends JAST {
11
12
        /** Parameter name. */
13
       private String name;
14
15
        /** Parameter type. */
16
       private Type type;
17
        /**
18
        * Construct an AST node for a formal parameter declaration given its line
19
20
        * number, name, and type.
21
        * @param line
22
                      line in which the parameter occurs in the source file.
23
         * @param name
24
25
                      parameter name.
         * @param_type
26
         *Assignment*Project Exam Help
27
28
29
        public JFormalParameter(int line, String name, Type type) {
            super(line);
this namel pane://powcoder.com
31
            this.type = type;
        }
        * Return the parameter's name. at powcoder
         * @return the parameter's name.
39
40
41
42
       public String name() {
43
            return name;
44
        }
45
46
        * Return the parameter's type.
47
48
         ^{\star} @return the parameter's type.
49
50
51
52
        public Type type() {
            return type;
54
        }
        * Set the type to the specified type.
58
         * @param newType
59
                      the new type.
         * @return return the new type.
61
62
63
64
        public Type setType(Type newType) {
65
            return type = newType;
66
```

```
67
68
        * No analysis done here.
70
        * @param context
71
                     context in which names are resolved.
72
        * @return the analyzed (and possibly rewritten) AST subtree.
73
74
75
76
       public JAST analyze(Context context) {
77
           // Nothing to do
78
           return this;
79
       }
80
81
        * No code generated here.
82
83
        * @param output
84
85
                     the code emitter (basically an abstraction for producing the
                     .class file).
       public void codegen(CLEmitter output) {
           // Nothing to do
        * @inheritDoc
       Assignment Project Exam Help
97
           p.printf("<JFormalParameter line=\"9</pre>
                    "type=\"%s\"/>\n", line(), name, (type == null) ? "" : type
99
                 https://powcoder.com
100
101
       }
102
103 }
104
```

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