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1 // Example 5.2 foi/examples/OverridingDemo.java
2 //
3 //
4 // Copyright 2003 Bill Campbell and Ethan Bolker
5
6 // Small program to illustrate overriding and toString()
7 //
8 // Here's what the output looks like:
9 //
10 // %> java Overriding Jessica Benjamin
11 // Terminal t = new Terminal();
12 // nobj = new NamedObject( args[0] );
13 // nobj.toString():
14 // nobj:
15 // nobj.toStringFromObject(): NamedObject@206fddf64
16 // nobj = new NamedObject( args[1] );
17 // nobj.toString():
18 // nobj:
19 // nobj.toStringFromObject(): NamedObject@2103ddf64
20 //
21 // toString():
22 // t:
23
24 public class OverridingDemo
25 {
26     public static void main( String[] args )
27     {
28         Terminal t = new Terminal();
29         NamedObject nobj;
30
31         t.println("Terminal t = new Terminal()");
32         t.println("nobj = new NamedObject( args[0] );");
33         nobj = new NamedObject( args[0] );
34         t.println( "nobj.toString(): " + nobj.toString() );
35         t.println( "nobj: " + nobj );
36         t.println( "nobj.toStringFromObject(): " +
37                 nobj.toStringFromObject());
38
39         t.println("nobj = new NamedObject( args[1] );");
40         nobj = new NamedObject( args[1] );
41         t.println( "nobj.toString(): " + nobj.toString() );
42         t.println( "nobj: " + nobj );
43         t.println( "nobj.toStringFromObject(): " +
44                 nobj.toStringFromObject());
45
46         t.println( "\ntoString(): " + t.toString() );
47         t.println( "t: " + t );
48     }
49 }
50
51 // A simple class whose instances have one field
52 // and several toString methods. Visible only inside
53 // the OverridingDemo class.
54
55 // you can put two classes in one file as long as only one of them
56 // is public

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57
58 class NamedObject // extends Object, by default
59 {
60     private String name;
61
62     // constructor does the obvious thing
63
64     public NamedObject( String name )
65     {
66         this.name = name;
67     }
68
69     // override toString in class Object
70
71     public String toString()
72     {
73         return name;
74     }
75
76     // access to the overridden method using super
77
78     public String toStringFromObject()
79     {
80         return super.toString();
81     }
82 }

```