

```
1: // $Id: hellothread.java,v 1.2 2018-05-17 16:08:47-07 - - $
2:
3: // Hello World example using two threads.
4: // class greeter extends Thread.
5:
6: import static java.lang.System.*;
7: import static java.lang.String.*;
8:
9: class hellothread {
10:     static long nanostart = nanoTime();
11:
12:     static void print (String fmt, Object... args) {
13:         Thread self = Thread.currentThread();
14:         double millisec = (nanoTime() - nanostart) / 1e6;
15:         String ident = format ("%10.3f: %s(%d): ",
16:                                millisec, self.getName(), self.getId());
17:         String message = format (fmt, args);
18:         out.println (ident + message);
19:         out.flush();
20:     }
21:
22:     static class greeter extends Thread {
23:         long delay_msec;
24:         greeter (String threadname, int delay) {
25:             super (threadname);
26:             delay_msec = delay;
27:         }
28:         public void run() {
29:             print ("starting");
30:             for (int count = 0; count < 10; ++count) {
31:                 try {
32:                     sleep (delay_msec);
33:                 } catch (InterruptedException exn) {
34:                     print ("interrupted: %s", exn.getMessage());
35:                 }
36:                 print ("slept %d msec, cycle %d", delay_msec, count);
37:             }
38:             print ("finished");
39:         }
40:     }
41:
42:     public static void main (String[] args) {
43:         print ("starting");
44:         greeter hello = new greeter ("Hello", 500);
45:         greeter world = new greeter ("World", 800);
46:         hello.start();
47:         world.start();
48:         print ("finished");
49:     }
50:
51: }
52:
53: //TEST// ./hellothread >hellothread.out
54: //TEST// mkpspdf hellothread.ps hellothread.java* hellothread.out
55:
```

[illegible]

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1:      0.046: main(1): starting
2:      8.555: main(1): finished
3:      8.913: Hello(8): starting
4:      9.705: World(9): starting
5:    509.595: Hello(8): slept 500 msec, cycle 0
6:    810.111: World(9): slept 800 msec, cycle 0
7:   1010.163: Hello(8): slept 500 msec, cycle 1
8:   1516.162: Hello(8): slept 500 msec, cycle 2
9:   1619.163: World(9): slept 800 msec, cycle 1
10:  2016.747: Hello(8): slept 500 msec, cycle 3
11:  2419.810: World(9): slept 800 msec, cycle 2
12:  2517.414: Hello(8): slept 500 msec, cycle 4
13:  3018.137: Hello(8): slept 500 msec, cycle 5
14:  3220.501: World(9): slept 800 msec, cycle 3
15:  3518.828: Hello(8): slept 500 msec, cycle 6
16:  4019.427: Hello(8): slept 500 msec, cycle 7
17:  4021.369: World(9): slept 800 msec, cycle 4
18:  4519.979: Hello(8): slept 500 msec, cycle 8
19:  4821.841: World(9): slept 800 msec, cycle 5
20:  5020.574: Hello(8): slept 500 msec, cycle 9
21:  5020.989: Hello(8): finished
22:  5622.450: World(9): slept 800 msec, cycle 6
23:  6423.022: World(9): slept 800 msec, cycle 7
24:  7223.663: World(9): slept 800 msec, cycle 8
25:  8024.264: World(9): slept 800 msec, cycle 9
26:  8024.654: World(9): finished
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