

```
1: // $Id: hellorunnable.java,v 1.11 2013-08-12 19:24:37-07 - - $
2:
3: //
4: // Hello World example using two threads.
5: // class greeter implements Runnable.
6: //
7:
8: import static java.lang.System.*;
9: import static java.lang.String.*;
10:
11: class hellorunnable {
12:     static long nanostart = nanoTime();
13:
14:     static void print (String fmt, Object... args) {
15:         Thread self = Thread.currentThread();
16:         double millisec = (nanoTime() - nanostart) / 1e6;
17:         String ident = format ("%10.3f: %s(%d): ",
18:                                millisec, self.getName(), self.getId());
19:         String message = format (fmt, args);
20:         out.println (ident + message);
21:         out.flush();
22:     }
23:
24:     static class greeter implements Runnable {
25:         String threadname;
26:         long delay_msec;
27:         greeter (String _threadname, int _delay_msec) {
28:             threadname = _threadname;
29:             delay_msec = _delay_msec;
30:         }
31:         public void run() {
32:             Thread self = Thread.currentThread();
33:             self.setName (threadname);
34:             print ("starting");
35:             for (int count = 0; count < 10; ++count) {
36:                 try {
37:                     Thread.sleep (delay_msec);
38:                 } catch (InterruptedException exn) {
39:                     print ("interrupted: %s", exn.getMessage());
40:                 }
41:                 print ("slept %d msec, %dth time", delay_msec, count);
42:             }
43:             print ("finished");
44:         }
45:     }
46:
47:     public static void main (String[] args) {
48:         print ("starting");
49:         Thread hello = new Thread (new greeter ("Hello", 500));
50:         Thread world = new Thread (new greeter ("World", 800));
51:         hello.start();
52:         world.start();
53:         print ("finished");
54:     }
55: }
56: }
57:
58: //TEST// runprog -x hellorunnable.lis hellorunnable
59: //TEST// mkpspdf hellorunnable.ps hellorunnable.java* hellorunnable.lis
60:
```

[illegible]

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1:
2: .....
3: log: hellorunnable.log
4: .....
5:
6:     1  Script   : /afs/cats.ucsc.edu/courses/cmcs012b-wm/bin/runprog
7:     2  limit c  :      0 max core file size (KB)
8:     3  limit f  : 4194303 max output file size (KB)
9:     4  limit t  : 4294967295 max CPU time (sec)
10:    5  stdin    : /dev/null
11:    6  stdout   : hellorunnable.out
12:    7  stderr   : hellorunnable.err
13:    8  log      : hellorunnable.log
14:    9  listing  : hellorunnable.lis
15:   10 Command   : hellorunnable
16:   11 starting: pid 9244: 19:32:33.00
17:   12 finished: pid 9244: 19:32:41.00, real 8.00, user 0.08, sys 0.02
18:   13 pstatus: 0x0000 EXIT STATUS = 0
19:
20: .....
21: stdin: /dev/null
22: .....
23:
24:
25: .....
26: stdout: hellorunnable.out
27: .....
28:
29:     1      0.048: main(1): starting
30:     2      8.414: main(1): finished
31:     3      8.678: Hello(8): starting
32:     4      8.704: World(9): starting
33:     5    510.066: Hello(8): slept 500 msec, 0th time
34:     6    809.348: World(9): slept 800 msec, 0th time
35:     7   1010.634: Hello(8): slept 500 msec, 1th time
36:     8   1511.206: Hello(8): slept 500 msec, 2th time
37:     9   1609.915: World(9): slept 800 msec, 1th time
38:    10   2011.743: Hello(8): slept 500 msec, 3th time
39:    11   2410.462: World(9): slept 800 msec, 2th time
40:    12   2512.291: Hello(8): slept 500 msec, 4th time
41:    13   3012.858: Hello(8): slept 500 msec, 5th time
42:    14   3211.025: World(9): slept 800 msec, 3th time
43:    15   3513.363: Hello(8): slept 500 msec, 6th time
44:    16   4011.576: World(9): slept 800 msec, 4th time
45:    17   4013.947: Hello(8): slept 500 msec, 7th time
46:    18   4514.495: Hello(8): slept 500 msec, 8th time
47:    19   4812.143: World(9): slept 800 msec, 5th time
48:    20   5015.018: Hello(8): slept 500 msec, 9th time
49:    21   5015.495: Hello(8): finished
50:    22   5612.693: World(9): slept 800 msec, 6th time
51:    23   6413.255: World(9): slept 800 msec, 7th time
52:    24   7253.086: World(9): slept 800 msec, 8th time
53:    25   8053.707: World(9): slept 800 msec, 9th time
54:    26   8054.247: World(9): finished
55:
56: .....
57: stderr: hellorunnable.err
58: .....
59:

```