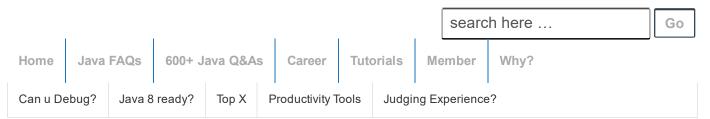
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execute concurrently & sequentially

Java ExecutorService with strategy design pattern to execute concurrently & sequentially

Posted on December 9, 2014 by Arulkumaran Kumaraswamipillai

Java executor framework for running multi-threaded applications concurrently, sequentially, and with a strategy design pattern to switch between sequential and concurrent execution. 1. Running concurrently

```
package com.writtentest13;

import java.util.ArrayList;
import java.util.List;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
```

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⊕ FP (8)

⊕ IO (7)

```
/**
9
10
11
    * Tasks are executed concurrently in a thread p
12
13
   public class ThreadExecutorMainCon {
14
15
    private ExecutorService concurrentThreadExecuto
16
17
    public static void main(String[] args) {
     ThreadExecutorMainCon main = new ThreadExecuto
18
19
20
     // concurrent executor
21
     main.concurrentThreadExecutor = Executors.newC
22
                       // newFixedThreadPool(3)
23
     List<Callable<Boolean>> tasks = new ArrayList<
24
25
     // create dummy tasks
for (int i = 1; i <= 5; i++) {</pre>
26
27
      tasks.add(main.createTask(i));
28
29
30
     // submit the tasks to the concurrentThreadExe
31
     try {
32
         main.concurrentThreadExecutor.invokeAll(ta
33
34
     } catch (InterruptedException e) {
35
           e.printStackTrace();
36
37
38
     System.out.println("Completed .....");
39
40
41
    private Callable<Boolean> createTask(final int
42
43
44
     Callable<Boolean> task = new Callable<Boolean>
45
46
      @Override
      public Boolean call() throws Exception {
47
          System.out.println("Performing task
48
49
          return true;
50
      }
51
52
     };
53
54
     return task;
55
56
57 }
58
59
```

The output will be

```
1 Performing task 1 on thread - pool-1-thread-1
  Performing task 5 on thread - pool-1-thread-4
Performing task 4 on thread - pool-1-thread-1
  Performing task 3 on thread - pool-1-thread-3
Performing task 2 on thread - pool-1-thread-2
6
  Completed .....
```

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