

The FileCount Case Study: Main Driver Program

Douglas C. Schmidt

d.schmidt@vanderbilt.edu

www.dre.vanderbilt.edu/~schmidt

Professor of Computer Science

**Institute for Software
Integrated Systems**

**Vanderbilt University
Nashville, Tennessee, USA**



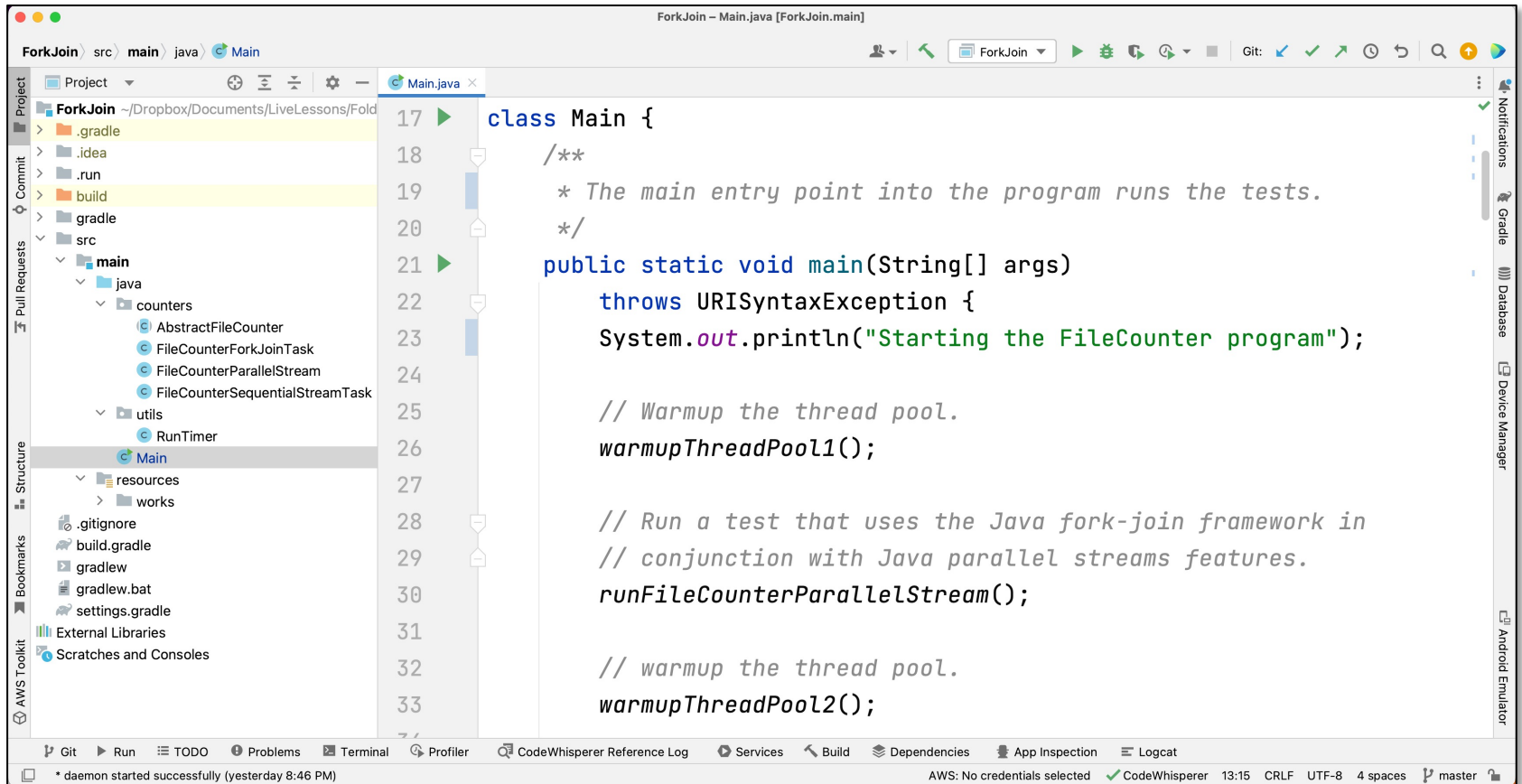
Learning Objectives in this Part of the Lesson

- Understand the design of the FileCounter case study
- Walkthrough the program implementation
 - Main driver & associated helper classes

```
static void main(String[] args) {  
    ...  
  
    runFileCounterParallelStream();  
    ...  
    runFileCounterTask();  
    ...  
    runFileCounterSequentialStreamTask();  
  
    System.out.println  
        (RunTimer.getTimingResults());  
    ...  
}
```

Walkthrough of the Main Driver Program

Walkthrough of the Main Driver Program



```
17 class Main {
18     /**
19      * The main entry point into the program runs the tests.
20      */
21     public static void main(String[] args)
22         throws URISyntaxException {
23         System.out.println("Starting the FileCounter program");
24
25         // Warmup the thread pool.
26         warmupThreadPool1();
27
28         // Run a test that uses the Java fork-join framework in
29         // conjunction with Java parallel streams features.
30         runFileCounterParallelStream();
31
32         // warmup the thread pool.
33         warmupThreadPool2();
34     }
```

The screenshot shows an IDE window titled "ForkJoin - Main.java [ForkJoin.main]". The left sidebar displays a project structure for "ForkJoin" located at "~\Dropbox\Documents\LiveLessons\Fold...". The main editor area shows the code for the "Main" class. The code includes a main method that prints "Starting the FileCounter program", warms up two thread pools (warmupThreadPool1 and warmupThreadPool2), and runs a test using the Java fork-join framework (runFileCounterParallelStream). The IDE interface includes various toolbars and a status bar at the bottom.

See [Folders/ForkJoin/src/main/java/Main.java](#)

End of the FileCount Case Study: Main Driver Program