

The screenshot shows an IDE with the following components:

- Project Explorer:** Shows the project structure with folders like .idea, image, out, pdf, src, main, java, itstep.learning, and async. The AsyncDemo class is highlighted.
- Code Editor:** Displays the AsyncDemo.java file with the following code:

```
5 public class AsyncDemo 2 usages Stanislav Putilin *
16
17 private String pandigital; 6 usages
18 private int treadsCountdown; 8 usages
19
20 private void pandigitalDemo() 1 usage new *
21 {
22     pandigital = "";
23     treadsCountdown = 10;
24     Thread[] treads = new Thread[treadsCountdown];
25     for(int i = 1; i <= treadsCountdown; i++)
26     {
27         treads[i-1] = new Thread(new PandigitalRunnable(i));
```
- Run Console:** Shows the execution output for the App application:

```
"C:\Program Files\Java\jdk-1.8\bin\java.exe" ...
AsyncDemo
thread: 3 pandigital: 32
thread: 5 pandigital: 324
thread: 4 pandigital: 3
thread: 8 pandigital: 32417
thread: 7 pandigital: 32417986
thread: 9 pandigital: 3241798
thread: 10 pandigital: 324179
thread: 2 pandigital: 3241
thread: 1 pandigital: 324179860
thread: 6 pandigital: 3241798605
thread: 6 pandigital: 3241798605 Last
total: 3241798605
Process finished with exit code 0
```
- Bottom Bar:** Shows the file path: First-Java > src > main > java > itstep > learning > async > AsyncDemo > run. The status bar indicates 13:22, CRLF, UTF-8, and 4 spaces.

First-Java master

Project

- First-Java
 - .idea
 - image
 - out
 - pdf
 - src
 - main
 - java
 - itstep.learning
 - async
 - AsyncDemo
 - db
 - fs
 - ioc
 - oop
 - services
 - App
 - Basics
 - resources
 - META-INF
 - db.ini
 - test
 - target
 - .gitignore
 - db.ini
 - pom.xml
 - text.txt
 - External Libraries
 - Scratches and Consoles

ConstructorBindingImpl.java InjectorImpl.java App.java AsyncDemo.java WorkerWithFile.java ReadingFile.java db.ini text.txt src\...\db.ini

```
5 public class AsyncDemo {
16
17     private String pandigital;
18     private int treadsCountdown;
19
20     private void pandigitalDemo() {
21         pandigital = "";
22         treadsCountdown = 10;
23         Thread[] treads = new Thread[treadsCountdown];
24         for(int i = 1; i <= treadsCountdown; i++)
25         {
26             treads[i-1] = new Thread(new PandigitalRunnable(i));
27             treads[i-1].start();
28         }
29
30         for(int i = 1; i <= 10; i++)
31         {
32             try{
33                 treads[i-1].join();
34             } catch (InterruptedException ignore) {}
35         }
36
37         System.out.println("total: " + pandigital);
38     }
39 }
40
```

Run App

"C:\Program Files\Java\jdk-1.8\bin\java.exe" ...

AsyncDemo

thread: 3 pandigital: 32

First-Java > src > main > java > itstep > learning > async > AsyncDemo > run 13:22 CRLF UTF-8 4 spaces

First-Java master

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ConstructorBindingImpl.java InjectorImpl.java App.java AsyncDemo.java WorkerWithFile.java ReadingFile.java db.ini text.txt src\...\db.ini

```
5 public class AsyncDemo {
41     private class PandigitalRunnable implements Runnable {
42
43         @Override
44         public void run()
45         {
46             try {
47                 TimeUnit.MICROSECONDS.sleep(2000);
48             } catch (InterruptedException e) {
49                 throw new RuntimeException(e);
50             }
51
52             String temp;
53             int lockCountdown;
54
55             synchronized (sumLocker)
56             {
57                 pandigital = pandigital + (thread - 1);
58                 temp = pandigital;
59                 lockCountdown = --threadsCountdown;
60             }
61             System.out.println("thread: " + thread + " pandigital: " + temp);
62
63             if (lockCountdown == 0)
64             {
65                 System.out.println("thread: " + thread + " pandigital: " + pandigital + " Last");
66             }
67         }
68     }
69 }
70
71
72
73
74
75 }
```

Run App

First-Java > src > main > java > itstep > learning > async > AsyncDemo > run 13:22 CRLF UTF-8 4 spaces