

INFO 6205

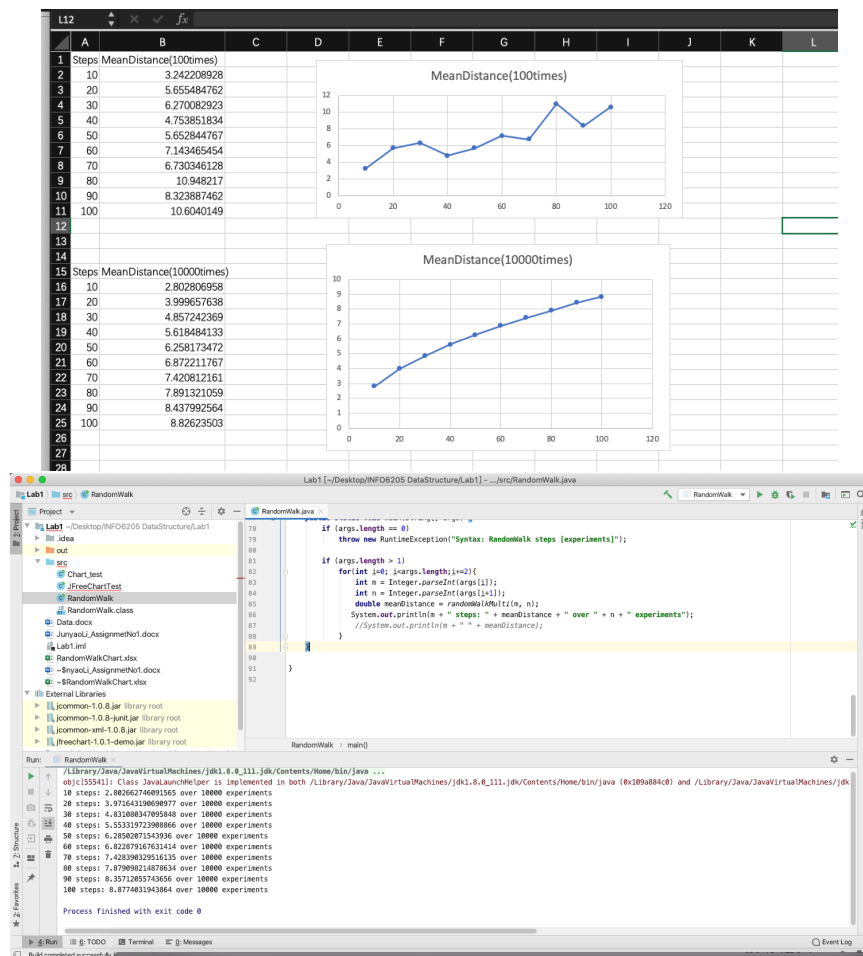
Program Structures & Algorithms

Fall 2020

Assignment No 01

- Task : RandomWalk
- Relationship conclusion : $d = \sqrt{n}$
- Evidence to support relationship

Show a positive correlation trend



- Screenshot of Unit test passing

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The screenshot displays an IDE window for a project named 'Lab1'. The main editor shows the 'RandomWalkTest.java' file, which contains the following code:

```
1 //...
2
3 import org.junit.Test;
4
5 import static org.junit.Assert.assertEquals;
6 import static org.junit.Assert.assertNotSame;
7
8
9 public class RandomWalkTest {
10
11     @Test
12     public void testMove0() {
13         RandomWalk rw = new RandomWalk();
14         PrivateMethodTester pmt = new PrivateMethodTester(rw);
15         pmt.invokePrivate("move", 1, 0);
16         assertEquals("expected: 1.0, rw.distance()", 1.0E-7);
17     }
18
19     /**
20      *
21      */
22 }
```

The 'Run' tab at the bottom shows the test results for 'RandomWalkTest'. The tests passed, and the process finished with exit code 0.

Test Name	Duration
testRandomWalk2	5 ms
testMove0	2 ms
testMove1	1 ms
testMove2	1 ms
testMove3	2 ms
testRandomWalk	1 s 112 ms

Tests passed: 6 of 6 tests - 1 s 123 ms

Process finished with exit code 0