

## Day 1 Lesson Plan

Clean Code Introduction (6 mins)<sup>1</sup>

### Activity 1: Basic Java Syntax

1 hour

- Brief introduction to classes and objects<sup>2</sup>
- Short lecture with handouts:
  - Java Language Overview<sup>3</sup>
  - Example program<sup>4</sup>
- Q/A

### Activity 2: Introduction to IntelliJ

30 mins

- Code up the palindrome example in IntelliJ<sup>5</sup>

### Activity 3: Variables and Scope

1 hour

- Example program<sup>6</sup>
- Design a Circle class
- Questions/Review

### Lunch

- Get Lunch
- Watch part of videos for Tuesday
- Clean Code-Remake (54m)<sup>7</sup>

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<sup>1</sup>[https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE\\_01\\_00\\_00](https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE_01_00_00)

<sup>2</sup>[../activities/activity1-1classesObjects.html](https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE_01_00_00)

<sup>3</sup>[../cheatsheets/javaBasics.html](https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE_01_00_00)

<sup>4</sup>[../activities/activity1-1basicJavaSyntax.html](https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE_01_00_00)

<sup>5</sup>[../activities/activity1-2palindrome.html](https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE_01_00_00)

<sup>6</sup>[../activities/activity1-3circleClass.html](https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE_01_00_00)

<sup>7</sup>[videos/01-clean\\_code.html](https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE_01_00_00)

## Activity 4: More Practice with IntelliJ

30 mins

- Code up the Circle and Point classes from Activity 3
- Link to repository: <https://github.com/sdp-resources/basicGraphing/releases/tag/WritingCircle>

## Activity 5: Coding Exercise

1 hour

- Have students create GitHub logins if they do not yet have one.
- Write program to read and process list of GPAs.
- See programming activity 1<sup>8</sup>
- Make sure students commit at the end of the day.

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<sup>8</sup>[../activities/activity1-5gpaCalculator.html](https://github.com/sdp-resources/basicGraphing/releases/tag/WritingCircle)