

Unit 06_005a – Deconstructing Scanner

Video Length 25:40

1. What is `System.in` according to the System API?
2. Given the following statement, explain what each part is. (I answered the new Scanner question for you.)

```
Scanner input = new Scanner(System.in);
```

- `Scanner`
- `input`
- `new Scanner` *calls the constructor for the Scanner class*
- `System.in`

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3. What two classes are used when reading input from a file in Java?

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4. You will not be asked to write a try...catch block on the exam. However, you should understand its parts.

What causes the statements in the `catch()` part to be executed?

1. The catch operates after the try block finishes
2. The catch happens after the method ends.
3. The catch only happens if there is an error in the try block. For example, catch would execute if the try block tried to open a file, but the file was not found.

4. The catch block executes before any other code in the method.

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5. Why is the Scanner declared outside of the try block?
6. Write the code needed to open a file named "data.txt". The file name should be set in a variable. Read a string from the file, and then close the file. Do not write the try/catch block (pretend there is no need for it).
7. What is System.err? How does IntelliJ treat it differently than System.out?
8. Does the catch block always terminate the program if it is executed? If not, what do you have to do to force the program to end in the catch() block?
9. Comment or ask questions here if there are any issues you would like for the instructor to address. It is not necessary to answer if you do not have questions.