

Testing with JUnit Lab 2

- Writing a class and developing tests

Testing with JUnit Lab 2

- Create a **com.secure.util** package in the **src** directory
 - Create an encryption class
 - Write an encryption method and a decryption method
 - Create a Caesar shift by shifting each char by 3
- Create a **com.secure.util** package in the **test** directory
 - Create a new JUnit Test Case in this package
 - Leave the checkboxes blank
 - Fill in the “Class under test” field and click Next

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- NOTE: This "select methods to test" dialog is convenient but not always recommended
 - You often need to write more test methods than just these
 - We show it to you so you know about it and how to use it
- Select all the encryption and decryption methods created
 - What do you notice about the generated test methods?
- Run the test
 - What happens?
- If `fail()` executes, the test fails

Testing with JUnit Lab 2 (end of lab)

- Keep in mind what type of data you are testing
 - Write your asserts accordingly
- Write the functionality of one of the test methods, e.g., `decrypt()`
 - Execute the test class and observe the results
- Complete the rest of the test methods