



INTRODUCTION TO JUNIT

Test Structure

	@Test
	public void saFizzWhenNumberDivideByThree() {
Setup	FizzBuzz fizzBuzz = new FizzBuzz();
Exercise	String result = fizzBuzz.say(3);
Verify	assertEquals("Fizz", result);
	}
Teardown	

Test Structure

	@Test
	public void saFizzWhenNumberDivideByThree() {
Arrange	FizzBuzz fizzBuzz = new FizzBuzz();
Act	String result = fizzBuzz.say(3);
Assert	assertEquals("Fizz", result);
	}

Test Structure

@ Before

@ After

Test Structure

Handle Exception

```
@Test
public void numberInvalid() {
    FizzBuzz fizzBuzz = new FizzBuzz();

    try {
        fizzBuzz.say(-1);
        fail();
    } catch (IllegalStateException expected) {
    }
}
```

Test Structure

Handle Exception

```
@Test(expected = IllegalStateException.class)
public void numberInvalid() {
    FizzBuzz fizzBuzz = new FizzBuzz();
    fizzBuzz.say(-1);
}
```

Test Structure

Handle Exception

```
@Rule
public ExpectedException thrown = ExpectedException.none();

@Test
public void numberInvalid() {
    thrown.expect(IllegalArgumentException.class);
    FizzBuzz fizzBuzz = new FizzBuzz();
    thrown.expect(IllegalStateException.class);
    fizzBuzz.say(-1);
}
```