

# Test-Driven Development

## Three simple rules

- Do not write any production code until you have first written a test that fails due to the lack of that code.
- Do not write more of a test than is sufficient to fail—and failing to compile counts as a failure.
- Do not write more production code than is sufficient to pass the currently failing test.

# Test-Driven Development

## Benefits

- Debugging cost is significantly reduced
- The tests are perfect kind of documentation for programmers
- Fun: make development a chain of small challenges and successes
- Completeness: force a mindset change while designing the code structure i.e., everything should be testable
- Design technique: testability is a synonym for **decoupling**
- Give courage to keep the code clean and orderly
- Code coverage should not be a management metric.