Java Assertion

1. Syntax of assert statement
   1. **assert** *expression1*;
   2. **assert** *expression1 : expression2*;

*expression1*must be a **boolean** expression.

*expression2*must return a value (must not return void).

1. How does assertion work?
   1. If assertion is **enabled**, then the assert statement will be evaluated. Otherwise, it does not get executed.
   2. If *expression1* is evaluated to **false**, an **AssertionError** is thrown which causes the program **stops immediately**. And depending on existence of *expression2*:
      1. If *expression2* does not exist, then the

**AssertionError** is thrown with no detail error message.

* + 1. If *expression2* does exist, then a String representation of

*expression2*’s return value is used as detail error message.

* 1. If *expression1* is evaluated to **true**,

then the program continues normally.

1. How to enable assertion?

java -enableassertions Example **OR** java -ea Example

1. Example



1. Generally, assertion is **enabled** during **development** time to defect and fix bugs, and is **disabled** at **deployment** or **production** to **increase performance**.