assumeTrue() and assumeFalse() method

This lesson demonstrates how to use assumeTrue and assumeFalse methods in JUnit 5 to make conditional assumptions.

We'll cover the following assumeTrue() Demo assumeFalse() Demo

assumeTrue()

Assumptions API in JUnit 5 has a static utility method called as, assumeTrue(). It validates the given assumption to true.

- if the assumption is **true** then test proceeds to execution.
- if the assumption is **false** then test execution is aborted.

There are basically three useful overloaded methods for assumeTrue.

```
// boolean assumption to validate
public static void assumeTrue(boolean assumption) throws TestAbortedException

public static void assumeTrue(boolean assumption, Supplier<String> messageSupplier) thro

public static void assumeTrue(boolean assumption, String message) throws TestAbortedExce

// BooleanSupplier to provide boolean assumption to validate

public static void assumeTrue(BooleanSupplier assumptionSupplier) throws TestAbortedExce

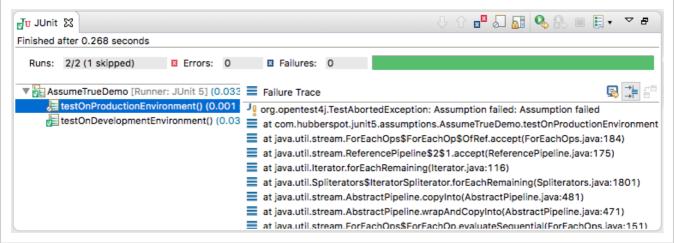
public static void assumeTrue(BooleanSupplier assumptionSupplier, String message) throws

public static void assumeTrue(BooleanSupplier assumptionSupplier, Supplier<String> message)
```

Demo

Let's look into the usage of the above methods.

```
import static org.junit.jupiter.api.Assumptions.assumeTrue;
     import org.junit.jupiter.api.Test;
     public class AssumeTrueDemo {
        @Test
        void testOnDevelopmentEnvironment() {
            System.setProperty("ENV", "DEV");
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            assumeTrue("DEV".equals(System.getProperty("ENV")));
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            //remainder of test will proceed
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        @Test
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        void testOnProductionEnvironment() {
            System.setProperty("ENV", "PROD");
            assumeTrue("DEV".equals(System.getProperty("ENV")), "Assumption failed");
          // remainder of test will be aborted
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```



assumeFalse()

Assumptions API in JUnit 5 has a static utility method called as assumeFalse().
It validates the given assumption to false.

- if the assumption is **false** then test proceeds to execution.
- if the assumption is **true** then test execution is aborted.

There are basically three useful overloaded methods for assumeFalse.

```
// boolean assumption to validate
public static void assumeFalse(boolean assumption) throws TestAbortedException
public static void assumeFalse(boolean assumption, Supplier<String> messageSupplier) throws T
public static void assumeFalse(boolean assumption, String message) throws TestAbortedExceptic

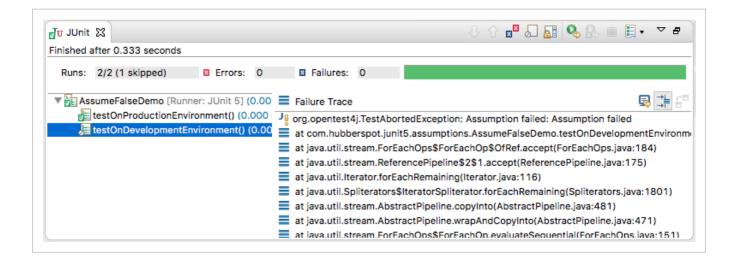
// BooleanSupplier to provide boolean assumption to validate
public static void assumeFalse(BooleanSupplier assumptionSupplier) throws TestAbortedExceptic
public static void assumeFalse(BooleanSupplier assumptionSupplier, String message) throws TestAbortedExceptic
public static void assumeFalse(BooleanSupplier assumptionSupplier, String message) throws TestAbortedExceptic
public static void assumeFalse(BooleanSupplier assumptionSupplier, Supplier<String> messageSupplier
public static void assumeFalse(BooleanSupplier assumptionSupplier, Supplier<String> messageSupplier
```

Demo

Let's look into the usage of the above methods.

```
package io.educative.junit5;
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import static org.junit.jupiter.api.Assumptions.assumeFalse;
import org.junit.jupiter.api.Test;
public class AssumeFalseDemo {
          @Test
   void testOnDevelopmentEnvironment() {
        System.setProperty("ENV", "DEV");
        assumeFalse("DEV".equals(System.getProperty("ENV")), "Assumption failed");
        //remainder of test will be aborted
   }
   @Test
   void testOnProductionEnvironment() {
        System.setProperty("ENV", "PROD");
        assumeFalse("DEV".equals(System.getProperty("ENV")));
        // remainder of test will proceed
   }
}
```





In the next lesson we will learn about assumingThat() method.