

Even More Assert Methods

```
void assertEquals(Object expected, Object actual)
```

```
void assertEquals(Object expected, Object actual, String message)
```

- Asserts that two arguments refer to the *same* object

```
void assertNotSame(Object expected, Object actual)
```

```
void assertNotSame(Object expected, Object actual, String message)
```

- Asserts that two objects do not refer to the same object



Even More Assert Methods

```
void assertNull(Object object)  
void assertNull(Object object, String message)
```

- Asserts that the object is null (undefined)

```
void assertNotNull(Object object)  
void assertNotNull(Object object, String message)
```

- Asserts that the object is not null

```
fail()  
fail(String message)
```

- Causes the test to fail and throw an *AssertionFailedError*



Even More Assert Methods

```
void assertThrows(Exception.class, () -> {  
    //code that throws an exception  
});
```

- Asserts that the enclosed code throws an Exception of a particular type

```
void assertDoesNotThrow(() -> {  
    //code that does not throw an exception  
});
```

- Asserts that the enclosed code does not throw an Exception

- For example:

```
String test = null;  
assertThrows(NullPointerException.class, () -> {  
    test.length();  
});
```

- Asserts that *test.length()* throws a *NullPointerException*
- Why? *test* is null, so there is no method *length()*

