

TESTNG - EXCEPTION TEST

http://www.tutorialspoint.com/testng/testng_exception_test.htm

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TestNG provides an option of tracing the exception handling of code. You can test whether a code throws a desired exception or not. Here the **expectedExceptions** parameter is used along with the @Test annotation. Now, let's see @TestExpectedExceptions in action.

Create a Class

- Create a java class to be tested, say, MessageUtil.java in **C:\>TestNG_WORKSPACE**.
- Add an error condition inside the printMessage method.

```
/*
 * This class prints the given message on console.
 */
public class MessageUtil {

    private String message;

    //Constructor
    //@param message to be printed
    public MessageUtil(String message){
        this.message = message;
    }

    // prints the message
    public void printMessage(){
        System.out.println(message);
        int a =0;
        int b = 1/a;
    }

    // add "Hi!" to the message
    public String salutationMessage(){
        message = "Hi!" + message;
        System.out.println(message);
        return message;
    }
}
```

Create Test Case Class

- Create a java test class, say, ExpectedExceptionTest.java.
- Add an expected exception ArithmeticException to the testPrintMessage test case.

Create a java class file named ExpectedExceptionTest.java in **C:\ > TestNG_WORKSPACE**.

```
import org.testng.Assert;
import org.testng.annotations.Test;

public class ExpectedExceptionTest {
    String message = "Manisha";
    MessageUtil messageUtil = new MessageUtil(message);

    @Test(expectedExceptions = ArithmeticException.class)
    public void testPrintMessage() {
        System.out.println("Inside testPrintMessage()");
        messageUtil.printMessage();
    }

    @Test
    public void testSalutationMessage() {
        System.out.println("Inside testSalutationMessage()");
    }
}
```

```

        message = "Hi!" + "Manisha";
        Assert.assertEquals(message, messageUtil.salutationMessage());
    }
}

```

Create Test Runner

Create testng.xml in **C:\>TestNG_WORKSPACE** to execute test cases.

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd" >

<suite name="Suite1">
    <test name="test1">
        <classes>
            <class name="ExpectedExceptionTest" />
        </classes>
    </test>
</suite>

```

Compile the MessageUtil, Test case classes using javac.

```
C:\TestNG_WORKSPACE>javac MessageUtil.java TestJunit.java
```

Now, run the Test Runner, which will run test cases defined in the provided Test Case class.

```
C:\TestNG_WORKSPACE>java -cp "C:\TestNG_WORKSPACE" org.testng.TestNG testng.xml
```

Verify the output. testPrintMessage test case will be passed.

```

Inside testPrintMessage()
Manisha
Inside testSalutationMessage()
Hi!Manisha

=====
Suite1
Total tests run: 2, Failures: 0, Skips: 0
=====
Loading [MathJax]/jax/output/HTML-CSS/jax.js

```