Mockito Practice Assignment: 22nd January 2024

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Mockito Example Test

```
▼ Mocktio-example [JFSD_Projects master]

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→ com.mockito

        > 🛺 TodoBusinessImpl.java
        > IP TodoService1.java
     src/main/resources

✓ m > src/test/java

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        TodoBusinessImplStubTest.java
        > 🖟 TodoService.java
        > Iß TodoServiceStub.java
     src/test/resources
   JRE System Library [JavaSE-1.8]
   > Maven Dependencies
   > 🚌 > src
     🔄 > target
     pom.xml
https://maven.apache.org/xsd/maven-4.0.0.xsd (xsi:schemaLocation)
<modelVersion>4.0.0</modelVersion>
 <groupId>com.mockito</groupId>
 <artifactId>Mocktio-example</artifactId>
 <version>0.0.1-SNAPSHOT
 <name>Mocktio-example</name>
 properties>
     <maven.compiler.target>21</maven.compiler.target>
     <maven.compiler.source>21</maven.compiler.source>
     <junit.jupiter.version>5.10.0</junit.jupiter.version>
 </properties>
 <dependencies>
      <dependency>
          <groupId>org.junit.jupiter</groupId>
          <artifactId>junit-jupiter-engine</artifactId>
          <version>${junit.jupiter.version}</version>
          <scope>test</scope>
       </dependency>
       <dependency>
          <groupId>org.junit.jupiter
          <artifactId>junit-jupiter-api</artifactId>
          <version>${junit.jupiter.version}</version>
          <scope>test</scope>
       </dependency>
       <dependency>
          <groupId>org.mockito</groupId>
          <artifactId>mockito-junit-jupiter</artifactId>
          <version>4.6.1
          <scope>test</scope>
       </dependency>
   </dependencies>
</project>
```

TodoBusinessImpl.java

```
package com.mockito;
3⊕ import java.util.ArrayList; ...
 8 public class TodoBusinessImpl {
10
        private TodoService1 todoService;
11
        TodoBusinessImpl(TodoService1 todoService) {
12⊖
13
            this.todoService = todoService;
14
15
16⊖
       public List<String> retrieveTodosRelatedToSpring(String user) {
17
            List<String> filteredTodos = new ArrayList<String>();
            List<String> allTodos = todoService.retrieveTodos(user);
18
19
            for (String todo:allTodos) {
20
                if (todo.contains("Spring")) {
21
                    filteredTodos.add(todo);
22
23
            }
            return filteredTodos;
24
25
        }
26
27⊝
        public void deleteTodosNotRelatedToSpring(String user) {
28
            List<String> allTodos = todoService.retrieveTodos(user);
29
            for (String todo:allTodos) {
30
                if (!todo.contains("Spring")) {
31
                    todoService.deleteTodo(todo);
32
33
            }
34
        }
35 }
36
```

TodoService1.java

```
package com.mockito;

import java.util.List;

public interface TodoService1 {
    List<String> retrieveTodos(String user);
    void deleteTodo(String todo);
}
```

TodoServiceStub.java

```
package com.mockito;
3⊕ import java.util.Arrays; ...
   public class TodoServiceStub implements TodoService1{
7
80
       @Override
9
       public List<String> retrieveTodos(String user) {
0
           return Arrays.asList("Learn Spring MVC","Learn Spring","Learn to Dance");
.1
2
.3
       @Override
40
.5
       public void deleteTodo(String todo) {
.6
           // TODO Auto-generated method stub
.7
8.
.9
0
11
```

TodoBusinessImpl.java

```
package com.mockito;
3@ import static org.junit.jupiter.api.Assertions.*;
5 import java.util.List;
7 import org.junit.jupiter.api.Test;
9 public class TodoBusinessImplStubTest {
10
11⊝
12
       public void test() {
13
           TodoService1 todoServiceStub = new TodoServiceStub();
14
           TodoBusinessImpl todoBusinessImpl= new TodoBusinessImpl(todoServiceStub);
           List<String> filteredTodos = todoBusinessImpl.retrieveTodosRelatedToSpring("Dummy");
15
16
           System.out.println(filteredTodos);
17
           assertEquals(2, filteredTodos.size());
18
19
20 }
21
```

Result

Failure:0

Failure:1 when assertsEquals 3

