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SER316 Summer A 2022
Assignment 3

Task 3 Step 1:

The screenshot shows an IDE with two main panels. The left panel displays the JUnit test results for the `test.java.CostTest` class. The tests passed, with a total time of 0.001 seconds. The right panel shows the source code for `CostTest.java`, which includes imports for JUnit, a `CostTest` class, and a `setUp` method that initializes test data.

```
5 import org.junit.Test;
6 import static org.junit.Assert.*;
7
8 public class CostTest {
9
10     private Cart createCart(int age) throws Exception {
11         return new Cart(age);
12     }
13
14     Cart cartA0, cartAU, cartD, cartM, cartF, cartPS, cartPT, cartAFO;
15     double cartIExpected, cartIex, cartA0ex, cartDex,
16         cartMex, cartFex, cartPSex, cartPTex, cartAFOex;
17
18     @org.junit.Before
19     public void setUp() throws Exception {
20         //Alcohol Over Age
21         cartA0 = createCart(21);
22         cartA0.addItem(new Alcohol());
23         cartA0ex = 8.64;
24
25         //Alcohol Under Age
26         cartAU = createCart(20);
27         cartAU.addItem(new Alcohol());
28
29         //Dairy
30         cartD = createCart(21);
31         cartD.addItem(new Dairy());
32     }
```

Task 3 Step 2:

The screenshot shows an IDE with two main panels. The left panel displays the JUnit test results for the `test.java.WhiteBoxGiven` class. The tests passed, with a total time of 0.003 seconds. The right panel shows the source code for `WhiteBoxGiven.java`, which includes imports for JUnit, a `WhiteBoxGiven` class, and a `setUp` method that initializes test data.

```
1 package test.java;
2
3 import main.java.*;
4
5 import org.junit.After;
6 import org.junit.Before;
7 import org.junit.Test;
8
9 import static org.junit.Assert.*;
10
11 public class WhiteBoxGiven {
12
13     Cart cart, cartP2, cartP3, cartP5, cartA0, cartAU, cartA1F1, cartA2F3, car
14
15     @Before
16     public void setUp() throws Exception {
17         cart = new Cart(45);
18         cart.addItem(new Dairy());
19
20         //Produce
21         cartP2 = new Cart(21);
22         for(int i = 0; i < 2; i++) {
23             cartP2.addItem(new Produce());
24         }
25         cartP3 = new Cart(21);
26         for(int i = 0; i < 3; i++) {
27             cartP3.addItem(new Produce());
28         }
29     }
```

Task 4:

The screenshot displays an IDE window for a project named 'ser316-summer2022-A-aelehner'. The left sidebar shows the Package Explorer with a tree structure including 'Cart.java', 'Dairy.java', 'FrozenFood.java', 'Main.java', 'Meat.java', 'Produce.java', 'Product.java', 'UnderAgeException.java', 'test.java', 'CostTest.java', and 'WhiteBoxGiven.java'. The main editor area shows the 'CostTest.java' file with the following code:

```
100 @Test
101 public void AmountSaved() {
102     assertEquals(9,
103         cartAU.getAmountSaved());
104 }
105 @Test
106 public void AmountSaved() {
107     assertEquals(8,
108         cartAU.getAmountSaved());
109 }
110 @Test
111 public void AmountSaved() {
112     Exception exception = assertThrows(UnderAgeException.class, () -> cartAU.calcCost());
113     assertEquals("The amount saved is not 10", exception.getMessage());
114 }
115 @Test
116 public void AmountSaved() {
117     assertEquals(10,
118         cartAU.getAmountSaved());
119 }
120 @Test
121 public void AmountSaved() {
122     assertEquals(10,
123         cartAU.getAmountSaved());
124 }
```

The right sidebar shows the 'reports' tab with the following content:

```
< > reports
Name
- jacoco
  - test
    - html
      - index.html
    - jacoco-resources
    - jacoco-sessions.html
  - main.java
  - tests
```

The terminal output shows the following messages:

```
Annas-MacBook-Pro:ser316-summer2022-A-aelehner annaelehner$ gradle test
> Task :compileTestJava FAILED
/Users/annaelehner/Documents/SER316/ser316-summer2022-A-aelehner/src/test/java/WhiteBoxGiven.java:111: error: cannot find symbol
    Exception exception = assertThrows(UnderAgeException.class, () -> cartAU.Amount_saved());
                                ^
symbol:   method assertThrows(Class<UnderAgeException>,()->cartAU[...]ved())
location: class WhiteBoxGiven
/Users/annaelehner/Documents/SER316/ser316-summer2022-A-aelehner/src/test/java/CostTest.java:71:
error: cannot find symbol
    Exception exception = assertThrows(UnderAgeException.class, () -> cartAU.calcCos
t());
                                ^
symbol:   method assertThrows(Class<UnderAgeException>,()->cartAU[...]ost())
location: class CostTest
2 errors

FAILURE: Build failed with an exception.

* What went wrong:
Execution failed for task ':compileTestJava'.
> Compilation failed; see the compiler error output for details.

* Try:
Run with --stacktrace option to get the stack trace. Run with --info or --debug option to get mo
re log output. Run with --scan to get full insights.

* Get more help at https://help.gradle.org

Deprecated Gradle features were used in this build, making it incompatible with Gradle 7.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See https://docs.gradle.org/6.6.1/userguide/command_line_interface.html#sec:command_line_warning
s

BUILD FAILED in 745ms
2 actionable tasks: 1 executed, 1 up-to-date
Annas-MacBook-Pro:ser316-summer2022-A-aelehner annaelehner$ gradle jacocoTestReport
> Task :jacocoTestReport
[ant:jacocoReport] Classes in bundle 'ser316-summer2022-A-aelehner' do no match with execution d
ata. For report generation the same class files must be used as at runtime.
[ant:jacocoReport] Execution data for class main/java/Cart does not match.

Deprecated Gradle features were used in this build, making it incompatible with Gradle 7.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See https://docs.gradle.org/6.6.1/userguide/command_line_interface.html#sec:command_line_warning
s

BUILD SUCCESSFUL in 1s
2 actionable tasks: 1 executed, 1 up-to-date
Annas-MacBook-Pro:ser316-summer2022-A-aelehner annaelehner$
```