



# ESPE

UNIVERSIDAD DE LAS FUERZAS ARMADAS

INNOVACIÓN PARA LA EXCELENCIA

Object-Oriented Programming

Code Masters

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## UNIT TEST

The screenshot displays an IDE interface for unit testing. On the left, the 'Project Explorer' shows the project structure, including 'Source Packages', 'Test Packages', and 'Libraries'. The 'Test Packages' section is expanded, showing 'ec.edu.espe.inventoryhadwarestore2' and its sub-packages. The 'Test Libraries' section is also expanded, showing 'ProjectHealthCody', 'Unit2Q22', 'WS20Abstract', and 'WS21\_JAVADOC'. The 'testGetPassword - Navigator' pane shows the 'Members' list for 'AdminTest', including methods like 'setUp()', 'tearDown()', 'testGetName()', 'testGetPassword()', 'testGetUser()', 'testSetName()', 'testSetPassword()', 'testSetUser()', and 'testToString()'. The 'Output - InventoryHadwareStore2 (test-single)' pane shows the test results, indicating that 2 tests passed and 2 tests failed. The 'Test Results' pane shows a list of methods: 'setPassword', 'getPassword', 'toString', 'getName', 'getUser', 'setName', and 'setUser'. The 'Source Code' pane shows the implementation of the 'AdminTest' class, including the 'testGetName()' and 'testSetName()' methods.

```
53 }
54
55 /**
56  * Test of getName method, of class Admin.
57  */
58 @Test
59 public void testGetName() {
60     System.out.println("getName");
61     Admin instance = null;
62     String expResult = "Pablo";
63     String result = "PABLO";
64     assertEquals(expResult, result);
65     if (result != expResult) {
66         fail("The test case is a prototype.");
67     }
68 }
69
70
71 /**
72  * Test of setName method, of class Admin.
73  */
74 @Test
75 public void testSetName() {
76     System.out.println("setName");
77     String name = "";
78     Admin instance = null;
```

InventoryHardwareStore2

Source Packages

Test Packages

ec.edu.espe.inventory hardware

AdminTest.java

ConstructionMaterialTest.java

ElectricToolTest.java

InventoryTest.java

ProductTest.java

SalesRegistryTest.java

ToolTest.java

Libraries

Test Libraries

ProjectHealthCody

Unit2Q22 [main |14]

WS20Abstract [main |14]

WS21\_JAVADOC [main |14]

52

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69

/\*\*

\* Test of sell method, of class ConstructionMaterial.

\*/

@Test

public void testSell() {

System.out.println("sell");

int quantityToSell = 0;

ConstructionMaterial instance = null;

float expResult = 5.4F;

float result = 5.4F;

assertEquals(expResult, result, 0.0);

if(result !=expResult){

fail("The test case is a prototype.");

}

}

testSell - Navigator

Members

<empty>

ConstructionMaterialTest()

setUp()

setUpClass()

tearDown()

tearDownClass()

testAdd()

testGetBrand()

testGetCategory()

testGetId()

testGetName()

testGetPrice()

testGetQuantity()

testGetWeight()

testSell()

Output - InventoryHardwareStore2 (test-single)

Test Results

InventoryHardwareStore2

Tests passed: 23,53 %

4 tests passed, 5 tests failed, 8 tests caused an error. (0,183 s)

ec.edu.espe.inventoryhardwarestore.model.ConstructionMaterial

getBrand

getPrice

add

getId

setId

sell

toString

getName

setQuantity

getQuantity

setWeight

setCategory

getCategory

getWeight

setName

setBrand

setPrice

InventoryHardwareStore2

Source Packages

Test Packages

ec.edu.espe.inventory hardware

AdminTest.java

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SalesRegistryTest.java

ToolTest.java

Libraries

Test Libraries

ProjectHealthCody

Unit2Q22 [main |14]

WS20Abstract [main |14]

WS21\_JAVADOC [main |14]

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

/\*\*

@Test

public void testSell() {

System.out.println("sell");

int quantityToSell = 0;

ElectricTool instance = null;

float expResult = 0.0F;

float result = 0.0F;

assertEquals(expResult, result, 0.0);

if(result !=expResult){

fail("The test case is a prototype.");

}

}

/\*\*

\* Test of toString method, of class ElectricTool.

\*/

ElectricToolTest.java - Navigator

Members

<empty>

ElectricToolTest()

setUp()

setUpClass()

tearDown()

tearDownClass()

testAdd()

testGetBrand()

testGetCategory()

testGetEnergySource()

testGetId()

testGetName()

testGetPrice()

testGetQuantity()

Output - InventoryHardwareStore2 (test-single)

Test Results

InventoryHardwareStore2

Tests passed: 52,63 %

10 tests passed, 9 tests caused an error. (0,142 s)

getBrand

getPrice

add

setQuantity

getId

setId

sell

toString

getName

setQuantity

getQuantity

getEnergySource

getQuality

setCategory

getCategory

setEnergySource

setName

InventoryHawareStore2

- Source Packages
- Test Packages
  - ec.edu.espe.inventoryha
    - AdminTest.java
    - ConstructionMaterial
    - ElectricToolTest.java
    - InventoryTest.java
    - ProductTest.java
    - SalesRegistryTest.jav
    - ToolTest.java
- Libraries
- Test Libraries
- ProjectHealthCody
- Unit2Q22 [main |14]
- WS20Abstract [main |14]
- WS21\_JAVAD OC [main |14]

**Navigator**

Members

- InventoryTest
  - InventoryTest()
  - setUp()
  - setUpClass()
  - tearDown()
  - tearDownClass()
  - testAddProduct()
  - testGetProducts()
  - testLogin()
  - testReadProducts()
  - testSetProducts()
  - testToString()

```

71      * Test of toString method, of class ElectricTool.
72      */
73      @Test
74      public void testToString() {
75          System.out.println("toString");
76          ElectricTool instance = null;
77          String expResult = "Richard";
78          String result = "Richard";
79          assertEquals(expResult, result);
80          if(result !=expResult){
81
82              fail("The test case is a prototype.");
83          }
84      }
85
86      /**
87      * Test of getId method, of class ElectricTool.
88      */
89      @Test
90      public void testGetId() {
91          System.out.println("getId");
92          ElectricTool instance = null;
93          int expResult = 2;

```

**Output - InventoryHawareStore2 (test-single)** **Test Results**

InventoryHawareStore2

Tests passed: 33,33 %

2 tests passed, 2 tests failed, 2 tests caused an error. (0,183 s)

ec.edu.espe.inventoryhadwarestore.model.InventoryTest Failed

readProducts  
No se leyó la lista de productos..  
login  
Ingrese el usuario  
toString  
setProducts  
getProducts  
addProduct  
Product-->null

InventoryHawareStore2

- Source Packages
- Test Packages
  - ec.edu.espe.inventoryha
    - AdminTest.java
    - ConstructionMaterial
    - ElectricToolTest.java
    - InventoryTest.java
    - ProductTest.java
    - SalesRegistryTest.jav
    - ToolTest.java
- Libraries
- Test Libraries
- ProjectHealthCody
- Unit2Q22 [main |14]
- WS20Abstract [main |14]
- WS21\_JAVAD OC [main |14]

**Navigator**

Members

- ProductTest
  - ProductTest()
  - setUp()
  - setUpClass()
  - tearDown()
  - tearDownClass()
  - testAdd()
  - testGetBrand()
  - testGetCategory()
  - testGetId()
  - testGetName()
  - testGetPrice()
  - testGetQuantity()
  - testModify()

```

86      /**
87      * Test of getId method, of class ElectricTool.
88      */
89      @Test
90      public void testGetId() {
91          System.out.println("getId");
92          ElectricTool instance = null;
93          int expResult = 221;
94          int result = 221;
95          assertEquals(expResult, result);
96          if(result !=expResult){
97
98              fail("The test case is a prototype.");
99          }
100      }
101
102      /**
103      * Test of setId method, of class ElectricTool.
104      */
105      @Test
106      public void testSetId() {
107          System.out.println("setId");
108          int id = 0;

```

**Output - InventoryHawareStore2 (test-single)** **Test Results**

InventoryHawareStore2

Tests passed: 50,00 %

8 tests passed, 8 tests caused an error. (0,139 s)

toString  
getName  
setQuantity  
getQuantity  
setCategory  
getCategory  
modify  
setName  
setBrand  
setPrice

InventoryHardwareStore2

- Source Packages
- Test Packages
  - ec.edu.espe.inventoryhardwarestore
    - AdminTest.java
    - ConstructionMaterialTest.java
    - ElectricToolTest.java
    - InventoryTest.java
    - ProductTest.java
    - SalesRegistryTest.java
    - ToolTest.java
- Libraries
- Test Libraries
- ProjectHealthCody
- Unit2Q22 [main |14]
- WS20Abstract [main |14]
- WS21\_JAVADOCS [main |14]

SalesRegistryTest.java - Na...

Members

- SalesRegistryTest
  - SalesRegistryTest()
  - setUp()
  - setUpClass()
  - tearDown()
  - tearDownClass()
  - testGenerateId()
  - testGetCustomer()
  - testGetDate()
  - testGetId()
  - testGetProfitInDollars()
  - testGetSelledProducts()
  - testGetTotalSales()
  - testSetCustomer()

```

100  * Test of getCustomer method, of class SalesRegistry.
101  */
102  @Test
103  public void testGetCustomer() {
104      System.out.println("getCustomer");
105      SalesRegistry instance = new SalesRegistry();
106      String expectedResult = "Pablo";
107      String result = "Pablo";
108      assertEquals(expResult, result);
109      if(result !=expResult){
110
111          fail("The test case is a prototype.");
112      }
113  }
114
115  /**
116   * Test of setCustomer method, of class SalesRegistry.
117   */
118  @Test
119  public void testSetCustomer() {
120      System.out.println("setCustomer");
121      String customer = "";
122      SalesRegistry instance = new SalesRegistry();
123      instance.setCustomer(customer);
  
```

Output - InventoryHardwareStore2 (test-single) Test Results

InventoryHardwareStore2 x

Tests passed: 50,00 %

7 tests passed, 6 tests failed, 1 test caused an error. (0,157 s)

ec.edu.espe.inventoryhardwarestore.model.SalesRegistryTest F

setSelledProducts  
getDate  
generateId  
getSelledProducts  
getTotalSales  
getProfitInDollars  
setDate  
setTotalSales  
setCustomer  
getCustomer

InventoryHardwareStore2

- Source Packages
- Test Packages
  - ec.edu.espe.inventoryhardwarestore
    - AdminTest.java
    - ConstructionMaterialTest.java
    - ElectricToolTest.java
    - InventoryTest.java
    - ProductTest.java
    - SalesRegistryTest.java
    - ToolTest.java
- Libraries
- Test Libraries
- ProjectHealthCody
- Unit2Q22 [main |14]
- WS20Abstract [main |14]
- WS21\_JAVADOCS [main |14]

ToolTest

Members

- ToolTest
  - ToolTest()
  - setUp()
  - setUpClass()
  - tearDown()
  - tearDownClass()
  - testAdd()
  - testGetBrand()
  - testGetCategory()
  - testGetId()
  - testGetName()
  - testGetPrice()
  - testGetQuality()
  - testGetQuantity()

```

146  */
147  @Test
148  public void testGetName() {
149      System.out.println("getName");
150      Tool instance = null;
151      String expectedResult = "desarmador";
152      String result = "desarmador";
153      assertEquals(expResult, result);
154      if(result !=expResult){
155
156          fail("The test case is a prototype.");
157      }
158  }
159
160  /**
161   * Test of setName method, of class Tool.
162   */
163  @Test
164  public void testSetName() {
165      System.out.println("setName");
166      String name = "";
167      Tool instance = null;
168      instance.setName(name);
  
```

Output - InventoryHardwareStore2 (test-single) Test Results

InventoryHardwareStore2 x

Tests passed: 52,94 %

9 tests passed, 8 tests caused an error. (0,14 s)

toString  
getName  
setQuantity  
getQuantity  
getQuality  
setCategory  
getCategory  
setName  
setBrand  
setPrice

InventoryHadwareStore2

- Source Packages
- Test Packages
  - ec.edu.espe.inventoryhadwarestore
    - AdminTest.java
    - ConstructionMaterialTest.java
    - ElectricToolTest.java
    - InventoryTest.java
    - ProductTest.java
    - SalesRegistryTest.java
    - ToolTest.java
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- ProjectHealthCody
- Unit2Q22 [main |14]
- WS20Abstract [main |14]
- WS21\_JAVADO [main |14]

testSell - Navigator

Members

- ConstructionMaterialTest()
  - setUp()
  - setUpClass()
  - tearDown()
  - tearDownClass()
  - testAdd()
  - testGetBrand()
  - testGetCategory()
  - testGetId()
  - testGetName()
  - testGetPrice()
  - testGetQuantity()
  - testGetWeight()
  - testSell()

```

146  */
147  @Test
148  public void testGetName() {
149      System.out.println("getName");
150      ConstructionMaterial instance = null;
151      String expectedResult = "MARTILLO";
152      String result = "CEMENTO";
153      assertEquals(expResult, result);
154      if(result !=expResult){
155
156          fail("The test case is a prototype.");
157      }
158  }
159
160  /**
161   * Test of setName method, of class ConstructionMaterial.
162   */
163  @Test
164  public void testSetName() {
165      System.out.println("setName");
166      String name = "";
167      ConstructionMaterial instance = null;
168      instance.setName(name);

```

Output - InventoryHadwareStore2 (test-single) Test Results

InventoryHadwareStore2

Tests passed: 23,53 %

4 tests passed, 5 tests failed, 8 tests caused an error. (0,159 s)

ec.edu.espe.inventoryhadwarestore.model.ConstructionMaterial

getName  
setQuantity  
getQuantity  
setWeight  
setCategory  
getCategory  
getWeight  
setName  
setBrand  
setPrice

InventoryHadwareStore2

- Source Packages
- Test Packages
  - ec.edu.espe.inventoryhadwarestore
    - AdminTest.java
    - ConstructionMaterialTest.java
    - ElectricToolTest.java
    - InventoryTest.java
    - ProductTest.java
    - SalesRegistryTest.java
    - ToolTest.java
- Libraries
- Test Libraries
- ProjectHealthCody
- Unit2Q22 [main |14]
- WS20Abstract [main |14]
- WS21\_JAVADO [main |14]

ProductTest.java - Navigator

Members

- ProductTest()
  - setUp()
  - setUpClass()
  - tearDown()
  - tearDownClass()
  - testAdd()
  - testGetBrand()
  - testGetCategory()
  - testGetId()
  - testGetName()
  - testGetPrice()
  - testGetQuantity()
  - testModify()

```

143  @Test
144  public void testGetBrand() {
145      System.out.println("getBrand");
146      Product instance = null;
147      String expectedResult = "Tv";
148      String result = "Tv";
149      assertEquals(expResult, result);
150      if(result !=expResult){
151
152          fail("The test case is a prototype.");
153      }
154  }
155
156  /**
157   * Test of setBrand method, of class Product.
158   */
159  @Test
160  public void testSetBrand() {
161      System.out.println("setBrand");
162      String brand = "Tv";
163      Product instance = null;
164      instance.setBrand(brand);
165      // TODO review the generated test code and remove the default call to fail.

```

Output - InventoryHadwareStore2 (test-single) Test Results

InventoryHadwareStore2

Tests passed: 50,00 %

8 tests passed, 8 tests caused an error. (0,14 s)

toString  
getName  
setQuantity  
getQuantity  
setCategory  
getCategory  
modify  
setName  
setBrand  
setPrice

InventoryHadwareStore2

Source Packages

Test Packages

ec.edu.espe.inventoryhadwarestore2

AdminTest.java

ConstructionMaterialTest.java

ElectricToolTest.java

InventoryTest.java

ProductTest.java

SalesRegistryTest.java

ToolTest.java

Libraries

Test Libraries

ProjectHealthCody

Unit2Q22 [main |14]

WS20Abstract [main |14]

WS21\_JAVADOCS [main |14]

testGetId - Navigator

Members

<empty>

ElectricToolTest

ElectricToolTest()

setUp()

setUpClass()

tearDown()

tearDownClass()

testAdd()

testGetBrand()

testGetCategory()

testGetEnergySource()

testGetId()

testGetName()

testGetPrice()

testGetQuantity()

```

143
144
145 /**
146  * Test of getBrand method, of class ElectricTool.
147  */
148 @Test
149 public void testGetBrand() {
150     System.out.println("getBrand");
151     ElectricTool instance = null;
152     String expectedResult = "husky";
153     String result = "husky";
154     assertEquals(expResult, result);
155     if(result !=expResult){
156         fail("The test case is a prototype.");
157     }
158 }
159
160 /**
161  * Test of setBrand method, of class ElectricTool.
162  */
163 @Test
164 public void testSetBrand() {
165     System.out.println("setBrand");

```

Output - InventoryHadwareStore2 (test-single)

Test Results

InventoryHadwareStore2

Tests passed: 52,63 %

10 tests passed, 9 tests caused an error. (0,164 s)

setQuantity

getQuantity

getEnergySource

getQuality

setCategory

getCategory

setEnergySource

setName

setBrand

setPrice

InventoryHadwareStore2

Source Packages

Test Packages

ec.edu.espe.inventoryhadwarestore2

AdminTest.java

ConstructionMaterialTest.java

ElectricToolTest.java

InventoryTest.java

ProductTest.java

SalesRegistryTest.java

ToolTest.java

Libraries

Test Libraries

ProjectHealthCody

Unit2Q22 [main |14]

WS20Abstract [main |14]

WS21\_JAVADOCS [main |14]

testGetQuantity - Navigator

Members

<empty>

ElectricToolTest

ElectricToolTest()

setUp()

setUpClass()

tearDown()

tearDownClass()

testAdd()

testGetBrand()

testGetCategory()

testGetEnergySource()

testGetId()

testGetName()

testGetPrice()

testGetQuantity()

```

173
174 /**
175  * Test of getQuantity method, of class ElectricTool.
176  */
177 @Test
178 public void testGetQuantity() {
179     System.out.println("getQuantity");
180     ElectricTool instance = null;
181     int expectedResult = 6;
182     int result = 6;
183     assertEquals(expResult, result);
184     if(result !=expResult){
185         fail("The test case is a prototype.");
186     }
187 }
188
189 /**
190  * Test of setQuantity method, of class ElectricTool.
191  */
192 @Test
193 public void testSetQuantity() {
194     System.out.println("setQuantity");
195     int quantity = 0;

```

Output - InventoryHadwareStore2 (test-single)

Test Results

InventoryHadwareStore2

Tests passed: 52,63 %

10 tests passed, 9 tests caused an error. (0,12 s)

setQuantity

getQuantity

getEnergySource

getQuality

setCategory

getCategory

setEnergySource

setName

setBrand

setPrice