**UNIVERSITY OF THE ARMED FORCES - ESPE**

**COMPUTER SCIENCE DEPARTMENT**

**Cases Test**

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**May 2021-September 2021**



**OBJECT ORIENTED PROGRAMMING**

**Cases Test**

1. **public static float computeIva(float price)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Input/s** | **Expected Result** | **Actual Result** |
| **1** | 150 | Expected as the function asked | 18 |
| **2** | 0,010 | Result is too large | 0.0011999999 |
| **3** | 1,00009 | Result is too large | 0.12001079 |
| **4** | -150 | Result gives a back a negative value | -18.0 |
| **5** | -150,4 | Result gives a back a negative value | -18.047998 |
| **6** | 0 | It returns a null value | 0.0 |
| **7** | Num8,5 | It doesn´t return anything | Error |
| **8** | f | It doesn´t return anything | Error |
| **9** | True | It doesn´t return anything | Error |
| **10** | 800 | Expected as the function asked | 96,0 |

1. **public static float computeTotalprice (float price)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Input/s** | **Expected Result** | **Actual Result** |
| **1** | 150 | Expected as the function asked | 168.0 |
| **2** | 0,010 | Result is too large | 0.0112 |
| **3** | 1,00009 | Result is too large | 1.1201007 |
| **4** | -150 | Result gives a back a negative value | -168.0 |
| **5** | -150,4 | Result gives a back a negative value | -168.448 |
| **6** | 0 | It returns a null value | 0.0 |
| **7** | Num8,5 | It doesn´t return anything | Error |
| **8** | f | It doesn´t return anything | Error |
| **9** | True | It doesn´t return anything | Error |
| **10** | 800 | Expected as the function asked | 896.0 |

1. **public static float computeSeasonDiscount (float Price, float seasonDiscount)**

**Price and seasonDiscount**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Input/s** | **Discount** | **Expected Result** | **Actual Result** |
| **1** | 150 | 13 | Expected as the function asked | 19,5 |
| **2** | 0,010 | 50 | Result is too large | 5.0E-4 |
| **3** | 1,00009 | -20,1 | Result is too large | -0.20101808 |
| **4** | -150 | false | Result gives a back a negative value | Error |
| **5** | -150,4 | 8 | Result gives a back a negative value | -12.032 |
| **6** | 0 | 60,99 | It returns a null value | 0.0 |
| **7** | Num8,5 | 40 | It doesn´t return anything | Error |
| **8** | f | 20 | It doesn´t return anything | Error |
| **9** | True | 84 | It doesn´t return anything | Error |
| **10** | 800 | D | Expected as the function asked | Error |

1. **public static float computeTotalPriceWithSeasonDiscount (float Price, float seasonDiscount)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Input/s** | **Discount** | **Expected Result** | **Actual Result** |
| **1** | 120 | 14 | Expected as the function asked | 103.2 |
| **2** | 0,018 | 70 | Result is too large | 0.005399999 |
| **3** | 1,00025 | -25,4 | Result is too large | 1.2543135 |
| **4** | -140 | -25,F | Result gives a back a negative value | Error |
| **5** | -150,4 | 5 | Result gives a back a negative value | -14.629999 |
| **6** | 0 | 99,99 | It returns a null value | 0.0 |
| **7** | Num8,5 | 44,1 | It doesn´t return anything | Error |
| **8** | f | 222 | It doesn´t return anything | Error |
| **9** | True | 81 | It doesn´t return anything | Error |
| **10** | 800 | @ | Expected as the function asked | Error |

1. **public static float computeDiscountUsed (float Price)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Input/s** | **Expected Result** | **Actual Result** |
| **1** | 150 | Expected as the function asked | 138.0 |
| **2** | 0,010 | Result is too large | 0.0092 |
| **3** | 1,00009 | Result is too large | 0.9200828 |
| **4** | -150 | Result gives a back a negative value | -138.0 |
| **5** | -150,4 | Result gives a back a negative value | -138.368 |
| **6** | 0 | It returns a null value | 0.0 |
| **7** | Num8,5 | It doesn´t return anything | Error |
| **8** | f | It doesn´t return anything | Error |
| **9** | True | It doesn´t return anything | Error |
| **10** | @ | Expected as the function asked | Error |