**University of the Armed Forces ESPE**

**Object Oriented Programming**

Name: Eduardo Antonio Mortensen

NRC: 3682

**Cases Test**

1. public static float computeIva(float price)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Input/s | Expected Result | Actual Result |
| 1 | 100 | Expected as the function asked | 12.0 |
| 2 | 0,001 | Result is too large | 1.20000004E-4 |
| 3 | 1,00005 | Result is too large | 0.12000599 |
| 4 | -100 | Result gives back a negative value | -12.0 |
| 5 | -100,45 | Result gives back a negative value | -12.053999 |
| 6 | 0 | It returns a null value | 0.0 |
| 7 | Number4,7 | It doesn´t return anything | Error |
| 8 | A | It doesn´t return anything | Error |
| 9 | true | It doesn´t return anything | Error |
| 10 | 400 | Expected as the function asked | 48.0 |

2. public static float computeTotalPrice(float price)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Input/s | Expected Result | Actual Result |
| 1 | 100 | Expected as the function asked | 112.0 |
| 2 | 0,001 | Result is too large | 0.00112 |
| 3 | 1,00005 | Result is too large | 1.1200559 |
| 4 | -100 | Result gives back a negative value | -112.0 |
| 5 | -100,45 | Result gives back a negative value | -112.504 |
| 6 | 0 | It returns a null value | 0.0 |
| 7 | Number4,7 | It doesn´t return anything | Error |
| 8 | A | It doesn´t return anything | Error |
| 9 | true | It doesn´t return anything | Error |
| 10 | 400 | Expected as the function asked | 448.0 |

3. public static float computeSeasonDiscount (float price, float seasonDiscount)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | price | discount | Expected Result | Actual Result |
| 1 | 100 | 10 | Expected as the function asked | 10.0 |
| 2 | 0,001 | 20 | Result is too large | total 2.0000001E-4 |
| 3 | 1,00005 | -40, 3 | Result gives back a negative value and large | -0.40302014 |
| 4 | -100 | false | It doesn´t return anything | Error |
| 5 | -100,45 | 3 | Result gives back a negative value | -3.0134997 |
| 6 | 0 | 40,99 | It returns a null value | 0.0 |
| 7 | Number4,7 | 55,99 | It doesn´t return anything | Error |
| 8 | A | 30 | It doesn´t return anything | Error |
| 9 | true | 70,00 | It doesn´t return anything | Error |
| 10 | 400 | A | Expected as the function asked | Error |

4. public static float computeTotalPriceWithSeasonDiscount (float price, float seasonDiscount)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | price | discount | Expected Result | Actual Result |
| 1 | 100 | 20 | Expected as the function asked | 80.0 |
| 2 | 0,002 | 20 | Result is too large | 0.0016000001 |
| 3 | 1,00005 | 100000 | Result gives back a negative value and large | -999.04987 |
| 4 | 6100 | false | It doesn´t return anything | Error |
| 5 | -100,45 | -22 | Result gives back a negative value | -122.548996 |
| 6 | 0 | 40,99 | It returns a null value | 0.0 |
| 7 | NWS4,7 | 55,99 | It doesn´t return anything | Error |
| 8 | A | 66 | It doesn´t return anything | Error |
| 9 | true | true | It doesn´t return anything | Error |
| 10 | 400 | q | Expected as the function asked | Error |

5. public static float computeDiscountUsed (float price, float seasonDiscount)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Input/s | Expected Result | Actual Result |
| 1 | 100 | Expected as the function asked | 92.0 |
| 2 | 0,001 | Result is too large | 9.2E-4 |
| 3 | 34,00005 | Result is too large | 31.280045 |
| 4 | -100 | Result gives back a negative value | -92.0 |
| 5 | -100,453 | Result gives back a negative value and too large | -92.41676 |
| 6 | 0.0 | It returns a null value | 0.0 |
| 7 | Number4,7 | It doesn´t return anything | Error |
| 8 | A.9 | It doesn´t return anything | Error |
| 9 | true | It doesn´t return anything | Error |
| 10 | 300 | Expected as the function asked | 276.0 |