**Coding Exercise - Java**

List of the bugs in the code that I have figured out:

|  |  |
| --- | --- |
| **Line Number (of original code)** | **Bug Found** |
|  |  |
| 83 | ‘this’ keyword is missing |
| 84 | ‘this’ keyword is missing |
| 98 | List is not initialized |
| 127 | Rounding return value to double instead of int |
| 140 | Grand total is equated to 0 inside the loop |
| 153 | Added toLowerCase to getDescription method to also consider ‘Imported’ (Uppercase ‘I’) (to make to case insensitive) |
| 161 | Floor should not be used for tax |
| 164 | Do not use floor to round-off |
| 172 | Do not use floor to round-off |
| 174 | Total displayed is price of items in order without taxes |
| 189 | Linked hashmap preserves order to print result in order |
| 202 | c.clear() results in clearing the contents in hashmap element as well, so I have created a new reference variable using new operator i.e., new order() |
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| 215 | Spelling mistake of imported |

Note: I have created a maven project in eclipse. Incorporated Foo.java file into the project. Using Junit, I have written 3 test cases (TestItem.java, TestOrder.java, TestOrderLine.java). I have loaded final source code and the 3 unit tests into the git repository.