**Java Assertions**

StockListener

line 81, assertion used to check the if condition forms the correct operation if the sell action is required.

PortfolioListener

line 51 used to check for correct switch statement return.

PortfolioTracker

Line 62 – checking that the delete method has performed it expect operation

Line 75 – checking that create portfolio has indeed created the given folio

Line 82 - checking that the portfolioBefore arrayList is not equal to null

StockTable

Line 184 – checking that the updateField method is working by checking the field parameter is the same NumSharesField

Portfolio

Line 62 – checking that the number of shares before selling is not equal to null

Line 76 – checking the checkSell method returns the expected values

**Junit Test**

There were 4 test classes created for each class within the model. They were PortfolioTest, PortfolioTrackerTest, PricesTest and StockTest. The tests within each class were used to assure that each class performed as expected. In PortfolioTest and stockTest we override equals and hashcode to test the equals specification.

Junit Coverage

As can be seen in the screenshot below, this is the coverage of our model package.

