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## **Completed Testing Framework**

### **Experiences:**

For this deliverable, our main goal was to complete the testing framework and get all 25 test cases written, as well as fixing some of our formatting from deliverable 3. We managed to conquer the most difficult task of completing the script to run all tests with a few hacks to allow for output to be read properly since Jython Music outputs extra text that is not needed for our testing purposes. We ran into a few hang ups with the coding, specifically the output of notes using '<' and '>' symbols, but the html report would read those as html tags. We managed to find a work around for this issue and completed all the tasks necessary for this deliverable.

### **Testing Framework:**

For our testing framework, we created a driver for each test which runs the methods that are being tested. We kept the format of our test cases, but had to put the test files in the library of the project for them to run properly due to how Jython Music runs. We have our test text files that is called by our script and has the test file's name to run.

### **Test Cases:**

The template for our test cases is the following:

Test executable

Requirement that is being tested

Component

Method

Input

Expected Output

The test executable begins with the word test and ends with a two-digit number indicating what order the test should run, i.e. test01

The requirement is an English description of what the function will be doing

The component is the class that the method will run from

The method is the function that will be tested

The input is the parameters that will be passed in to the function

The expected output is what the actual output will be tested against