TA Auto Grader

## Preparation

Make sure you have a TDDanalysis.cfg file that contains the following entries:

[Location]

Root: /Users

Home: shammond/GoogleDrive

Semester: 6700Spring17

Assignment: Assignment5

Name Path Depth: 7

[TA Test Case Location]

Test Directory: TATests

Adjust the naming of the path names to match your directory structure.

Run GetDirectoryList.py if <assignment name>.dirList does not exist in the directory that contains the TAAutoGrader.py code.

All the TA Test Cases should be placed in a Test Directory. The Test Directory should be underneath the Semester directory in the directory tree structure. Using the above configuration examples, it would be located in this path: /Users/shammond/GoogleDrive/6700Spring17/TATests

## Execution

From the command line, run either TAAutoGrader.sh (Mac) or TAAutoGrader.bat (Windows). Run TAAutoGrader.py. For Mac, you must run

chmod 755 TAAutoGrader.sh

on the shell script before you can run it. Then run

./TAAutoGrader.sh Assignment5.dirList

where Assignment5.dirList is the name of the list you created using GetDirectoryList.py.

## Results

TAAutoGrader will produce 2 reports: TATests<assignment name>.TAreport and ta\_test.stdout.log. Both of these tests will be appended to the end, so if a re-run is needed, they should be deleted in order to be recreated without duplications.

TATests<assignment name>.TAreport will be in the same subdirectory with the Semester. It will contain a listing of all the students who were graded, with an overall description of the results. For example,

If the student passed all the acceptance tests, it will say “**All tests completed successfully!”**

Student submission path: /Users/shammond/GoogleDrive/6700Spring17/Assignment5/submissions/SaurabhGupta/softwareprocess

Number of tests run: 44

See log for Content of TestRunner failuresImport Error: /Users/shammond/GoogleDrive/6700Spring17/Assignment5/submissions/SaurabhGupta/softwareprocess

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Student submission path: /Users/shammond/GoogleDrive/6700Spring17/Assignment5/submissions/bzt0016/softwareprocess

Number of tests run: 19

See log for Content of TestRunner failuresImport Error: /Users/shammond/GoogleDrive/6700Spring17/Assignment5/submissions/bzt0016/softwareprocess

If the student did not pass all the acceptance tests, it will say “**See log for Content of TestRunner failures”**

If there are errors, there will be a report called ta\_test.stdout.log where the standard output from the Test Runner is written out for all students. The following page shows a sample of that file:

Student submission path: /Users/shammond/GoogleDrive/6700Spring17/Assignment5/submissions/MitchPrice/softwareprocess

test100\_910\_ShouldReturnValuesWithErrorKeyWhenNoOpSpecified (DispatchTest.MyTestCase) ... ok

test100\_920\_ShouldReturnValuesWithoutErrorKeyWhenValuesHasDictionartyElementErrorAsKey (DispatchTest.MyTestCase) ... FAIL

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test\_100\_960\_ShouldReturnErrorOnValidInvalidKeyValuePair (convertString2DictionaryTest.convertString2DictionaryTest) ... ok

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FAIL: test100\_920\_ShouldReturnValuesWithoutErrorKeyWhenValuesHasDictionartyElementErrorAsKey (DispatchTest.MyTestCase)

----------------------------------------------------------------------

Traceback (most recent call last):

File "/Users/shammond/GoogleDrive/6700Spring17/TATests/DispatchTest.py", line 63, in test100\_920\_ShouldReturnValuesWithoutErrorKeyWhenValuesHasDictionartyElementErrorAsKey

self.assertDictEqual(DP.dispatch(values), expectedDictionary)

AssertionError: {'temperature': '72', 'height': '6.0', 'pressure': '1010', 'horizon': 'artificia [truncated]... != {'pressure': '1010', 'temperature': '72', 'observation': '15d04.9', 'horizon': ' [truncated]...

- {'error': 'no op is specified',

- 'height': '6.0',

? ^

+ {'height': '6.0',

? ^

'horizon': 'artificial',

'observation': '15d04.9',

'pressure': '1010',

'temperature': '72'}

----------------------------------------------------------------------

Ran 44 tests in 0.007s

FAILED (failures=1)

If you’re interested, you can run the TAStatReportGenerator. It will report how many times student code failed on each given test. A report will be generated for both the error (error\_report.TAreport) and fail (fail\_report.TAreport) categories.