SRAK - Automated Assignment Grading System

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Version 1.0
Fri Apr 28 2017

Namespace Documentation

checkerv1 Namespace Reference

Functions

- def **compile** (fileName, lang)
- def **run** (fileName, inputFile, timeout, lang)
- def **calcScore** (correct_output_file, subm_output_file, verbose=False)
- def **printScore** (fileName, testin, testout, timeout, lang)

Variables

- string **subm_dir** = '/Users/killer/Desktop/10_24pm/uploaded_files/'+sys.argv[1]+'/'+sys.argv[2]
- **subm_folder**
- **testin**
- **testout**
- **timeout**
- dictionary **scores** = {}
- string **lang** = ''
- **compiled**
- **ran**
- **score**
- **compile_report**
- **runtime_report**
- **run_report**
- **writer** = csv.writer(scoreFile)

Detailed Description

```
@package docstring

A code checker tool for Java, C, CPP. Gives feedback by generating a summary and a detailed
report.

Summary reports the compile status, run status and the score of each file

The detailed report gives additional information about each file covering compile errors,
run-time errors and the expected,
```
submitted values of each submission file

Function Documentation

def checkerv1.calcScore (*correct_output_file,* *subm_output_file,* *verbose* **=**
False)

```
Calculates scores by comparing the correct output file and the output file of the
submission file

Expects the output of each testcase to be printed in one line

Returns a report of test-cases on which wrong output was generated.
```

def checkerv1.compile (*fileName,* *lang***)**

```
Compiles a given file

Compiles a file with g++ if it is C/CPP and javac if it is JAVA

Returns the list of compilation errors if the file does not compile
```

def checkerv1.printScore (*fileName,* *testin,* *testout,* *timeout,* *lang***)**

```
Helper function to generate the summary
```

def checkerv1.run (*fileName,* *inputFile,* *timeout,* *lang***)**

```
Runs a compiled file with supplied test-cases as input

Returns run-time errors if any.

Returns a 'Timeout error' if the submission file takes longer than the timeout.
Automatically uses the default 'timeout' command with Linux, perl with MacOS.
```

Cleans up any extraneous files created during runtime