Project 2

Clarifications/Corrections

- Sep 11: Updated main.ipynb: Updated q18 statement for more clarification
- Sep 13: Fixed test.py to work on machines where Jupyter is run with py -m jupyter notebook

Overview

In this project, you'll learn about types, operators, and boolean logic. To start, create a p2 directory, and download main.ipynb and test.py to that directory (IMPORTANT: use the same process to download that you used for P1, which involves left-clicking the files and then right-clicking the "Raw" button).

You will change main.ipynb and hand it in. You should not change test.py, and you should not hand it in.

After you've downloaded both files to p2, open a terminal window and use cd to navigate to that directory. You will likely need to review the steps you used to cd to p1 for the previous project, then adapt those steps for p2. To make sure you're in the correct directory in terminal, type 1s and make sure you see main.ipynb and test.py listed.

Now run the following command:

```
python test.py
```

You should see the following output:

```
Summary:
Test 1: PASS
Test 2: no outputs in an Out[N] cell
Test 3: PASS
Test 4: no outputs in an Out[N] cell
Test 5: no outputs in an Out[N] cell
Test 6: no outputs in an Out[N] cell
Test 7: no outputs in an Out[N] cell
Test 8: no outputs in an Out[N] cell
Test 9: no outputs in an Out[N] cell
Test 10: found 3001 but expected 301
Test 11: found :):):) but expected :):):):):):):):):)
Test 12: found 777777 but expected 42
Test 13: found 25 but expected 125
Test 14: no outputs in an Out[N] cell
Test 15: found True but expected False
Test 16: found False but expected True
Test 17: found False but expected True
 Test 18: found 3 but expected True
```

Test 19: found False but expected True Test 20: no outputs in an Out[N] cell

TOTAL SCORE: 10.00%

This means if you turn in main.py now, you'll get 10% for your score. Pretty good for having done nothing yet, no?

You would get 10% because there are 20 problems, each worth 5%, and we have done problems 1 and 3 for you. You can see this because the output above says "PASS" by them. Your goal is to get more points by getting test.py to print "PASS" by more problems. In some cases, you can see there is no answer in the original notebook (when it says no outputs in an Out[N] cell), and in other cases you need to make a change to correct a wrong answer (e.g., when it says found 25 but expected 125).

Now let's open a second terminal window (we want one to run Jupyter and one to run the tests). In the second one, perform the same steps to navigate to p2 (again checking with 1s). Now run jupyter notebook (or, if that doesn't work, try python -m jupyter notebook).

Try solving the second question. Then do a Kernel > Restart & Run All. If that looks good, save your work, switch to your other terminal, and run the tests. Make sure you're scoring 15% before proceeding to the other questions.

Have fun, and run test.py often to track your progress!