## README

January 26, 2021

## 1 Activity 03: Python as a Calculator

 $https://asu-compmethodsphysics-phy494.github.io/ASU-PHY494//2021/01/26/03\_HelloWorld/\#activity-python-as-a-calculator$ 

Create a file solution.py in which you evaluate the following mathematical expressions and assign them to variables a, b, ...

$$a = -1 + 2 \tag{1}$$

$$b = 102 - 201 \tag{2}$$

$$c = 12345678987654321 \times 9876543210123456789 \tag{3}$$

$$d = 3/2 \tag{4}$$

$$e = \frac{1}{1 - 0.9^2} \tag{5}$$

$$f = 1 + \frac{2}{1} + \frac{2^2}{1 \cdot 2} + \frac{2^3}{1 \cdot 2 \cdot 3} + \frac{2^4}{1 \cdot 2 \cdot 3 \cdot 4}$$
 (6)

$$g = -3^4 \tag{7}$$

$$h = 2 - 5.5 \times 10^{-7} \tag{8}$$

$$i = 1.672621898 \times 10^{-27} \times (3 \times 10^8)^2 \tag{9}$$

$$j = \sqrt{2} \tag{10}$$

$$k = \sqrt{-1} \tag{11}$$

$$l = (1+2i) + (-2+i) \tag{12}$$

$$m = \frac{1+2i}{2-i} \tag{13}$$

(14)

## 1.1 Testing

Run the tests locally with

pytest

In order to perform autograding, git push your changes.

## 1.2 Example

The first line in solution.py should be

[]: a = -1 + 2