C2 - Python

C-COD-240

Day 03

Scientific Calculator

1.4

Day 03

delivery method: pythond03 on Github

- The totality of your source files, except all useless files (binary, temp files, obj files,...), must be included in your delivery.
- Error messages have to be written on the error output, and the program should then exit with the 84 error code (0 if there is no error).

CREATE YOUR SOFTWARE !

We will check your code with you, and evaluate **its quality**.

You have to realize a simple scientific calculator (exec and evaluate are forbidden…)
A scientific calculator must contain every usual functions (tan, sin, cos, exp, …) with bases (2, 8, 10, 16), …

Look at Tkinter, it's useful to create graphical interface in Python.

Requirements

Required (12 points, may be negative):

- Get all requirements
- Require at least 1 dependency (colorize, …)
- Contain 1 executable
- Architecture (files, modules, classes, …)
- License
- Cryptographically signed
- Respect naming conventions
- Documentation (rdoc)
- Unitary tests
  - Why not test continuous integration with Travis?
- Git repository clean (English commits, respecting the conventions, detailed, etc.)
  - Search on the internet the conventions
- Code maintainable (coherent, not too complex)
  - Code Climate, …

Bonus:

- Awesome software (design / user friendly / man / efficient argument parsing / …)