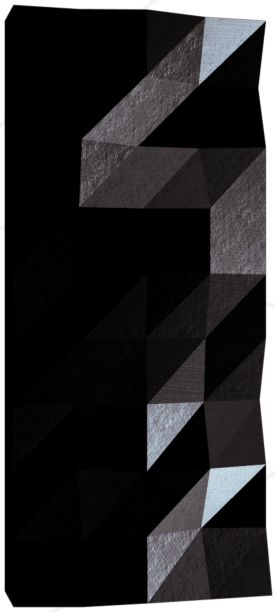

Dash - python_golf_1

python_golf_1

Summary: *this document is the subject for the dash @ 42Tokyo.*

Contents

Chapter I

Foreword

Get creative with python scripting!

Chapter II

Objective

Create the shortest `python_golf_1.py`.

Chapter III

Instructions

- Evaluation will be done on 42 Tokyo's Mac.
- This dash is a solo project.
- Turn in your code inside the turn-in repository.
- Your code will be executed with Python 3.9.0.

Chapter IV

Exercice 00 : python_golf_1

	Exercice 00
python_golf_1	
Turn-in directory : $ex00/$	
Files to turn in : `python_golf_1.py`	
Forbidden functions : `eval`	

- Write a python function 'evaluate' that takes a string representing a mathematical expression, and evaluates it.
- Use of eval() is forbidden. All other standard libraries and functions are allowed.
- Your function should accept a string as an argument, and return an integer.
- Your function must handle order of operations correctly.
- The following operations must be supported:
  - '+' - Addition
  - '-' - Subtraction
  - '*' - Mutliplication
  - '/' - Division
  - '(' and ')' - Parantheses
- For example:

```
from python_golf_1 import evaluate
result = evaluate("8 * (5 + 3) - 22")
print(result)
```

  The above code should output "42".
- Your function only has to handle valid expressions dealing with whole numbers. There is no need to handle floats, fractions, division by zero, etc.