* Guido van Rossum ⇒ 1991
* PEP = Python Enhancement proposal

Subject PYTHON Date 07/09/23

- Programming paradigms:
→ imperative (object-oriented, procedural)
→ declarative (functional, concurrent)
- Jupyterlab (Jupyter notebook) = interpreter.

- CONSTANTS: should be defined at module (file) level.
using SCREAMING_SNAKE_CASE signifies that name shouldn't be reassigned or its value mutated.

- FUNCTIONS: start with keyword def, parameters in () followed by a colon : . statements in body must be indented by 2 spaces.

eg:
```
def add_two_nos(n1, n2):
    total = n1 + n2
    print(total)
```

* Functions with no explicit return keyword will return None implicitly

- COMMENTS: single-line = #
- DOCSTRING: Multiline = """ ... """
  summarize function / objects purpose
- CALLING FUNCTIONS: (.) dot operator

  * str module, upper function (all upper case)

  ex → start = "hello"

  → str.upper(start)

  "HELLO"

- NUMBERS: int, float, complex

  Fractions → fractions.Fraction

  Decimals → decimal.Decimal

  Whole numbers including hex(), oct(), bin() ⇒ int

- OPERATIONS: / → Division

  // → Quotient

  % → Remainder

  int is narrower than float

  ∴ The result of an expression containing float will be a float

  → Division ⇒ Always float

  ⇒ integer ans. of div ⇒ //

  convert float to int: int()

  convert int to float: float()

  * Numpy → create data

    Matplotlib → visualise data