

Functional calculator

Overview

This is a calculator written in Python. It is written in a functional style, inspired by Haskell for the type IO, which represents the IO monad for side effects.

The operators are only the basic ones, +, -, /, *.

The program is used as my answer for an assignment in a CS course at the University of People.

Sample output:

With the addition operator:

```
$ python mycalc.py
operand > 10
operator > +
operand > 345
operator > =
[1] > 10 + 345 = 355
```

With the multiplication operator:

```
$ python mycalc.py
operand > 12
operator > *
operand > 54
operator > =
[1] > 12 * 54 = 648
```

With successive operations:

```
$ python mycalc.py
operand > 16
operator > -
operand > 2
operator > *
[1] > 16 - 2 = 14
operand > 66
operator > +
[2] > 14 * 66 = 924
operand > 12
operator > /
[3] > 924 + 12 = 936
operand > 5
operator > =
```

$$[4] > 936 / 5 = 187.2$$