Helloworld

April 9, 2020

This is a first simple notebook showing how to print to console and how to read from it.

1 I/O to console

1.1 Print to console

Let's try to be polite

```
[1]: print('Hello, world!')
```

Hello, world!

When printing to console, we can concatenate more sentences

```
[2]: print('Hello, world!', 'What a beautiful day.', 'Indeed.')
```

Hello, world! What a beautiful day. Indeed.

1.2 Read from console

What if we want to send personal greetings!?

```
[3]: print('What is your name?')
   name=input()
   print('Hello,', name)
```

What is your name?

Andrea

Hello, Andrea

The read input is in a new line. How can I keep it in the same line? This solution offers a better result.

```
[4]: name=input('What is your name? ')
print('Hello,', name)
```

```
What is your name? Andrea Hello, Andrea
```

[5]: sign=input('What is your zodiac sign?')

What is your zodiac sign? Sagittarius

[6]: print('I foresee that in the coming months', sign, 'will learn Python.')

I foresee that in the coming months Sagittarius will learn Python.

2 Variables

Note that name and sign are variables that will store the read inputs.

```
[7]: print('Hello again,', name)
```

Hello again, Andrea

```
[8]: print('Dear',name,'I foresee that in the coming months',sign,'will learn Python.

→')
```

Dear Andrea I foresee that in the coming months Sagittarius will learn Python.

Every variable has a *name*. This name can start with a letter, a __,

```
[9]: n=5 print(n)
```

5

5

Variables can contain other characters, but not as first one.

```
[11]: n1=5 print(n1)
```

5

```
File "<ipython-input-12-7a3b216150d8>", line 1 1n=5
```

SyntaxError: invalid syntax

The values of variables can be updated.

```
[]: n=6 print(n)
```

We can even assign the value of a variable to another one

```
[]: print('Before:',n,n1)
    n1=n
    print('After',n,n1)
```

3 Next week...

Next week we will see that every variable has a type. Actually, everything has a type in Python. Everything is an $object \dots$

```
[]: n1 = 5

n2 = 1.4e-2

n3 = 'Ciao'

n4 = n1 + n2

n5 = n1 + n3
```

[]: