

Programming fundamentals

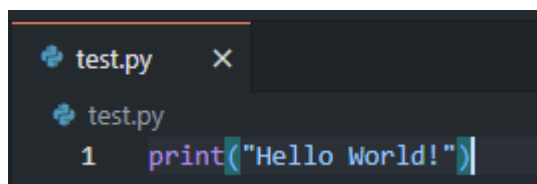
Programming is the way humans can communicate with the machines, it's the common language we both speak.

How would you teach a child to make a coffee?

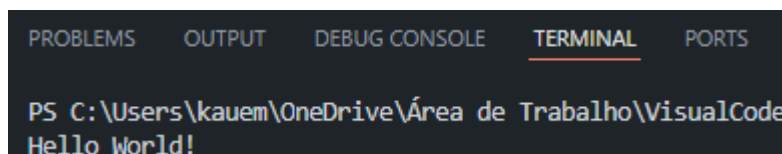
1. Go to the kitchen
2. Grab a glass
3. Grab the coffee
4. Put the coffee in the machine
5. Put the glass in the machine
6. Fill the machine with water
7. Turn the machine on
8. Press the "make a coffee" button
9. Wait until it finishes
10. Turn off the machine
11. Clean the coffee dispenser
12. Grab you glass
13. Enjoy

The order matters, the instructions matter and you have to be clear and make it easy.

As the basic says, we started by doing a welcoming "Hello World!" in python to understand better it's mechanic.



```
test.py x
test.py
1 print("Hello World!")
```




```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\kauem\OneDrive\Área de Trabalho\VisualCode
Hello World!
```

Print is actually a function who run a small script when you call it, making your input be printed on screen.

Syntax is like the grammar in English

But syntax doesn't mean logic. You can have a correct syntax but still the code doesn't have logic.

And using many print statements we went through a challenge of drawing a cat, and here is my

masterpiece 

```
test.py x
test.py
1  print(" ^           ^")
2  print("| \         / |")
3  print("| *\       /* |")
4  print("| **\    ** /* |")
5  print("| ***  *** |")
6  print("|      |")
7  print("|   @   @   |")
8  print("|_____")
9  print("|   ---   --- |")
10 print("|   --- o --- |")
11 print("|   ---   --- |")
12 print("|       _      |")
13 print("|       U      |")
14 print("|_____")
15 print("|||")
16 print("|||")
17 print("|||")
18 print("|||")
19 print("|||")
20 print("|||")
21 print("  V V          V V")
22
```

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