Python Programming
Syntax Errors

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Teaching, Training and Coaching since more than a decade!

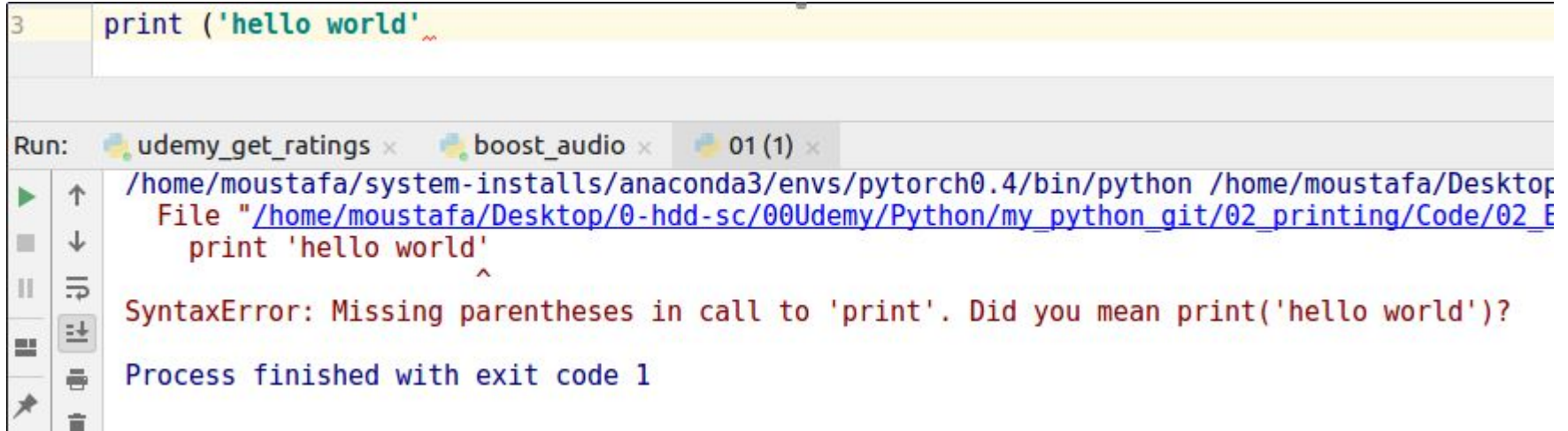*Artificial Intelligence & Computer Vision Researcher*
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Ex-(Software Engineer / ICPC World Finalist)

Don't forget ()

```
3   print ('hello world'
```

Run: 🐍 udemy_get_ratings ×   🐍 boost_audio ×   🐍 01 (1) ×

/home/moustafa/system-installs/anaconda3/envs/pytorch0.4/bin/python /home/moustafa/Desktop
    File "/home/moustafa/Desktop/0-hdd-sc/00Udemy/Python/my_python_git/02_printing/Code/02_E
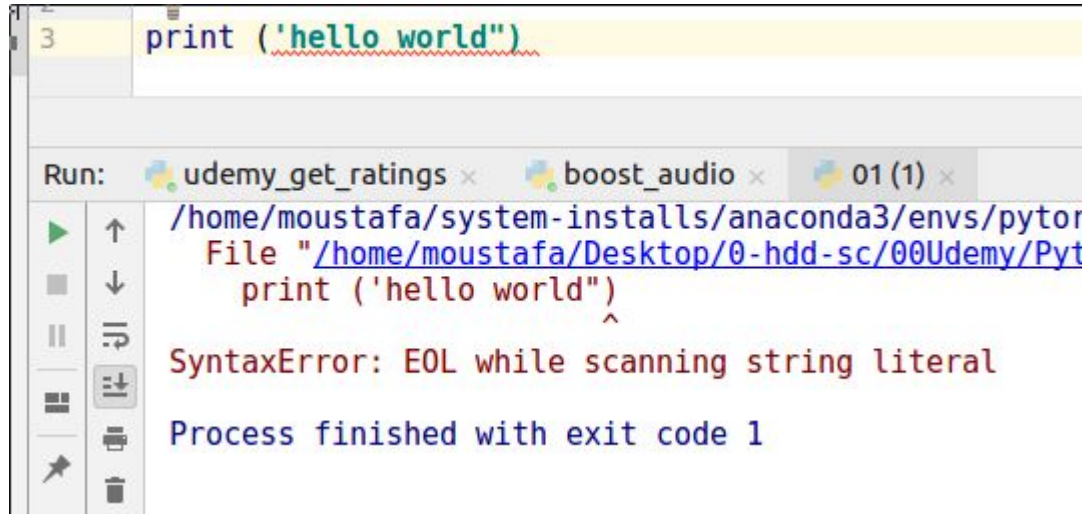   print 'hello world'
                        ^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print('hello world')?

Process finished with exit code 1

- Observe line 3: Syntax highlighting for a potential mistake
- **Syntax errors:** Python parser is unable to understand a line of code
- Exit code 1 ⇒ Did not finish properly
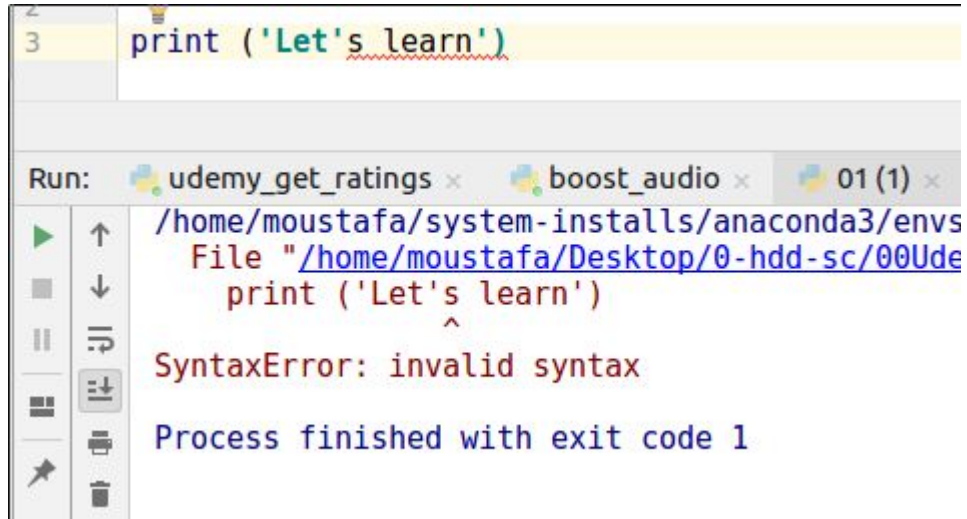
Each string start/end: either 'xxx' or "xxx" not "xxx:'

Printing '


```
3  print ('Let's learn')
```

Run: udemy_get_ratings ×   boost_audio ×   01 (1) ×
/home/moustafa/system-installs/anaconda3/envs
  File "/home/moustafa/Desktop/0-hdd-sc/00Ude
    print ('Let's learn')
                  ^
SyntaxError: invalid syntax

Process finished with exit code 1

- This is tricky!
- We wanna print '
- But if we added it, python sees 3 single quotes! So how to solve!

Handling the issue

- We can utilize " for printing ' and the opposite
- Or use \' and \" [not great choice]

```
3    print ('Let\'s learn')    # use escape char \'  ..hmm
4    print ("let's learn")    # make use of ""
5
6    print ("Same for using \" in between")
7    print ('Same for using " in between')
8
9    """
10   Let's learn
11   let's learn
12   Same for using " in between
13   Same for using " in between
14   """
15
```

Case Sensitive!


```
3    Print ('hello')
4
```

```
Run:    udemy_get_ratings ×    boost_audio ×    01 (1) ×

/home/moustafa/system-installs/anaconda3/envs
Traceback (most recent call last):
  File "/home/moustafa/Desktop/0-hdd-sc/00Ude
    Print ('hello')
NameError: name 'Print' is not defined

Process finished with exit code 1
```

Handling errors

- We all make errors
- Tip #1:
  - Code line by line.
  - Run and make sure no errors or solve them
- Tip #2:
  - Google is your friend
  - Stackoverflow is a great site!

"Acquire knowledge and impart it to the people."

"Seek knowledge from the Cradle to the Grave."