Python Programming Printing

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```
# This is comment. Interpreter IGNORE
                             # Hello World
       print('Hello World')
      print("Hello World")
                                      # Hello World
 6
      # notes
      # print is called a function (later)
      # ( ) are called parentheses
# ' ' are called single quote
        ' ' are called single quotes
                 are called double quotes
                 are called letters :)
      # 'Hello World' we call it a string (sequence of letters)
      # Hello World The letter between Hello and World is SPACE
15
      # Above program outputs 2 LINES
16
```

Behind The scene

- Let's provide a simple and informal to what happens for this line:
 - print("hello world")
- The Python interpreter parses your code line by line
- It read a word: print
 - This is a function (command for now) to print something
 - Then it expects after that ("
 - Then it searches till it finds the first ", which should (actually may) have after it)
- It then prints what is between "something"

```
print('Hello')
       print('World')
       print('I am Mostafa')
       111111
       triple quotes Allows multiline comments
       Nothing here is processed by Interpreter
9
10
       Output from lines 3-5
       Hello
13
       World
14
       I am Mostafa
15
       1111111
16
```

```
print('Hello \nWorld\nI am Mostafa')
 4
        11 11 11
 5
       Hello
 6
       World
        I am Mostafa
 8
        \n Things starting with \ are called escape characters
 9
10
        \n means add a NEW line now
        .....
12
       print(' Hello \n World\n I am Mostafa')
13
        .....
14
15
         Hello
          World
16
           I am Mostafa
        11 11 11
18
```

```
print('Hello '
              'World '
 4
              'I am Mostafa')
 6
       11 11 11
       Hello World I am Mostafa
 8
 9
       Line 3-5 are a SINGLE command for print
10
           We can split on several lines
11
       .....
12
13
```

Doing Arithmetics

```
# we can do simple arithmatic!
print(1+2+3)
print(3 * 4)
print (6 / 2)
print(7 / 2)
print('7 / 2') # this is a normal print msg

"""

6
11     12
12     3.0
13     3.5
14     70/2
15
```

Comma in Printing

- , is called comma
- Comma prints space between different items

```
print("There is", 1, "instructor not", 2 * 3)

# There is 1 instructor not 6
```

"Acquire knowledge and impart it to the people."

"Seek knowledge from the Cradle to the Grave."