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# BASIC SYNTAX



ZOOMING



# Basic Syntax

- Python have many similarities to C, Java. But there are some definite difference.
- Interactive mode program

```
>>> print ("Hello, Python!")
```

- Script mode program

```
print ("Hello, Python!")
```

- Extension : **.py**



# Python Identifiers

- It is a name given to entities like class, functions, variables, etc.,

## Rules for writing Identifiers:

- case-sensitive language. `Variable != variable`
- It can be combination of uppercase, lowercase or digit or underscore.
- It cannot start with digit.
- Keyword cannot be used as identifiers.
- Cannot use special chars like `!,@,#,$,%,etc.,`
- It can be of any length.

```
global = 10
```

```
1var=10
```

```
var@1=10
```

```
var_1=10
```



# Python Keywords or Reserved words

- Cannot use keywords as a variable name or function name or any other identifiers.
- It is used to define syntax and structure of a python.
- Case sensitive
- 33 keywords in Python 3.7

False	class	finally	is	return
None	continue	for	lambda	try
True	def	from	nonlocal	while
and	del	global	not	with
as	elif	if	or	yield
assert	else	import	pass	
break	except	in	raise	



# Lines and Indentation

- Braces no need to indicate block of code for class, functions or flow controls.
- Block of code are denoted by line indentation.
- All statement within the block must be same number of spaces.

```
if True:  
    print "Answer"  
    print "True"  
else:  
    print "Answer"  
    print "False"
```

```
if True:  
    print "Answer"  
    print "True"  
else:  
    print "Answer"  
    print "False"
```



# Multi Line Statements

- Statements in python end with new line.
- If statements need more than one line, it uses continuation character ( \ ).
- If statements contained within [ ], { } or ( ), no need continuation character.

```
total = item_one + \  
        item_two
```

```
days = ['Monday', 'Tuesday',  
        'Wednesday', 'Thursday', 'Friday']
```



# Quotation in Python

- It accept single, double and triple quotes to denotes as string literals.
- It starts and ends to the string.
- Triple quotes are used to accept multiple line string.

```
word = 'word'  
sentence = "This is a sentence."  
paragraph = """This is a paragraph. It is  
made up of multiple lines and sentences."""
```



# Comments in Python

- Single line command start with #
- Multi line command start and end with ““ ””

```
#!/usr/bin/python  
# First comment  
print "Hello, Python!" # second comment  
'''this is a  
Multi line command'''
```

