

syntax

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## 1.No need to use semicolon for ending statement like other language.

*# define main function to print out something*

```
def main():  
    i = 1  
    max = 10  
    while (i < max):  
        print(i)  
        i = i + 1
```

*# call function main*

```
main()
```

**So Python officially doesn't support ++ or --**

## 2.Divide line use backslash

Python uses a newline character to separate statements. It places each statement on one line.

However, a long statement can span multiple lines by using the backslash (\) character.

The following example illustrates how to use the backslash (\) character to continue a statement in the second line:

```
if (a == True) and (b == False) and \  
    (c == True):  
    print("Continuation of statements")
```

## 3. Identifier

Python identifiers are case-sensitive. For example, the **counter** and **Counter** are different identifiers.

## 4. Keywords

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	

## 5. String literals

Python uses single quotes ('), double quotes ("), triple single quotes (""") and triple-double quotes (""") to denote a string literal.

The string literal needs to be surrounded with the same type of quotes. For example, if you use a single quote to start a string literal, you need to use the same single quote to end it.

The following shows some examples of string literals:

```
s = 'This is a string'
print(s)
s = "Another string using double quotes"
print(s)
s = """ string can span
    multiple line """
print(s)
s = """ string can span use triple double code
    multiple line """
print(s)
```

# Summary

A Python statement ends with a newline character.

Python uses spaces and indentation to organize its code structure.

Identifiers are names that identify variables, functions, modules, classes, etc..

Comments describe why the code works. They are ignored by the Python interpreter.

Use the single quote, double-quotes, triple-quotes, or triple double-quotes to denote a string literal.

operator

## Arithmetic Operators :

Operator	Description	a	b	Example	Result
+	Addition	5	2	$a + b$	7
-	Subtraction	5	2	$a - b$	3
*	Multiplication	5	2	$a * b$	10
/	Division (Floating)	5	2	$a / b$	2.5
//	Floor Division	5	2	$a // b$	2
%	Modulus (Remainder)	5	2	$a \% b$	1
**	Exponentiation	5	2	$a ** b$	25

Assignment operator :

Operator	Description	a	b	Example	Equivalent To	Result
<code>+=</code>	Add and Assign	5	2	<code>a += b</code>	<code>a = a + b</code>	7
<code>-=</code>	Subtract and Assign	5	2	<code>a -= b</code>	<code>a = a - b</code>	3
<code>*=</code>	Multiply and Assign	5	2	<code>a *= b</code>	<code>a = a * b</code>	10
<code>/=</code>	Divide and Assign	5	2	<code>a /= b</code>	<code>a = a / b</code>	2.5
<code>//=</code>	Floor Divide and Assign	5	2	<code>a //= b</code>	<code>a = a // b</code>	2
<code>%=</code>	Modulus and Assign	5	2	<code>a %= b</code>	<code>a = a % b</code>	1
<code>**=</code>	Exponentiate and Assign	5	2	<code>a **= b</code>	<code>a = a ** b</code>	25



## Comparison operators :

Python has six comparison operators, which are as follows:

- Less than ( `<` )
- Less than or equal to ( `<=` )
- Greater than ( `>` )
- Greater than or equal to ( `>=` )
- Equal to ( `==` )

- Not equal to ( `!=` )

### Logical Operator :

Python has three logical operators:

- `and`
- `or`
- `not`

#### a and b

a	b	a and b
True	True	True
True	False	False
False	False	False
False	True	False

#### a or b

a	b	a or b

True	True	True
True	False	True
False	True	True
False	False	False

**not a**

<b>a</b>	<b>not a</b>
True	False
False	True

Basic

## Python

[Youtube link](#)

1. For getting input we use
2. input('write input value') method. [ python ], scanf() [ for c] cin() for [c++] and new Scanner () for java
3. For comment we use = # for single line. For multiple line we use = ... comment message ... or """ cmt message """
4. Data type = int,float/double,char,string,bool,