Index
Control Statements
Conditional control statements
olf o If-else o If-elif-else o Nested-if
Loop control statements
o for o while o Nested loops
Branching statements
o Break o Continue o Pass o Return
Case studies

Control statements are used to control the flow of execution of program.

1. Conditional control statements
2. Looping control statements
3. Branching statements

Conditional control statements or conditional statements
Python support 2 types of conditional statements

1. If statement
2. match statement (python 3.10 version)

Conditional statements are used to execute block of statements based on condition or selection.

If statement or if keyword

If is called conditional control statement
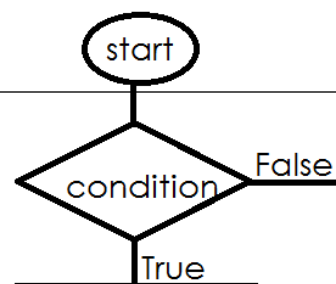This statement is used to execute block of statements based on condition.
Types of if statements
1. simple if
2. if..else
3. if..elif..else (if..else ladder)
4. nested if

simple if
if without else is called simple if

Syntax:	
	start

condition — False

True

If <condition>/<Boolean-Expression>:
    Statement-1
    Statement-2
Statement-3
 	
If condition is True, it execute statement-1,statement-2 and statement-3
If condition is False, it execute statement-3	

Example:
```
if 10>5:
    print("Python")

if 10<5:
    print("Java")

if 10>=5:
    print("Jython")

print("Java")
```
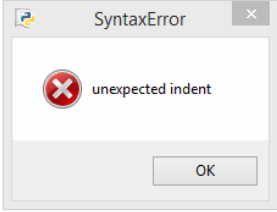
Output:
```
Python
Jython
Java
```

File Edit Format Run Options Window Help

```python
if 10>5:
 print("Python")

if 10>5:
    print("Java")

if 10>5:
    print("C")
    print("C++")

print("Jython")
```
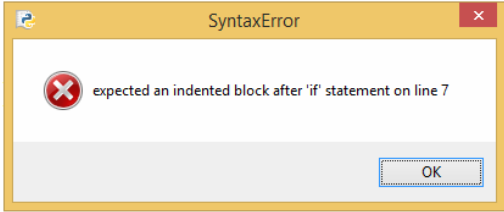
SyntaxError ✕

❌ unexpected indent

OK

File Edit Format Run Options Window Help

```python
if 10>5:
 print("Python")

if 10>5:
    print("Java")

if 10>5:
print("Jython"
```

SyntaxError ✕

❌ expected an indented block after 'if' statement on line 7

OK

What is pass?
Pass is keyword or statement
This statement or keyword is used to represent empty block
Pass indicates do nothing or null operation

Example:
if 10>5: # deposit

```python
    print("deposit")

if 20>5: # withdraw
    pass


if 5<20:
    pass


print("Java")
print("C++")
print("C")
print("Python")
```

Output
deposit
Java
C++
C
Python

If..else statement
This syntax is having two blocks
1. if block
2. else block

Syntax:	

If <condition>:
  Statement-1
  Statement-2
else:
  statement-3
  statement-4
 	
statement-5
 	
if condition is True, it execute	

| statement-1,statement-2 and statement-5
if condition is False, it execute statement-3,statement-4 and statement-5 | |