

# Keyword List

Here's a list of Python keywords or reserved words along with a brief summary and an example for each:

1. **\*\*and\*\***: Logical operator for conjunction. Returns True if both operands are true.

```
```python
x = True
y = False
result = x and y # result is False
```
```

2. **\*\*as\*\***: Used to create an alias when importing a module or a specific attribute.

```
```python
import math as m
print(m.sqrt(25)) # Output: 5.0
```
```

3. **\*\*assert\*\***: Used for debugging purposes. Raises an error if the given expression is False.

```
```python
x = 5
assert x > 0, "Value must be greater than 0"
```
```

4. **\*\*break\*\***: Terminates the nearest enclosing loop or ``if`` statement.

```
```python
for i in range(5):
    if i == 3:
        break
    print(i)
# Output: 0, 1, 2
```
```

5. **\*\*class\*\***: Declares a new class, a blueprint for creating objects.

```
```python
class Dog:
    def __init__(self, name):
        self.name = name
```
```

6. **\*\*continue\*\***: Jumps to the next iteration of the nearest enclosing loop.

```
```python
```

```

for i in range(5):
    if i == 2:
        continue
    print(i)
# Output: 0, 1, 3, 4
'''

```

7. **\*\*def\*\***: Defines a function.

```

'''python
def greet(name):
    print("Hello, " + name + "!")
'''

```

8. **\*\*del\*\***: Deletes a variable or an element from a collection (such as a list).

```

'''python
my_list = [1, 2, 3]
del my_list[1]
print(my_list) # Output: [1, 3]
'''

```

9. **\*\*elif\*\***: Stands for "else if" and is used in conditional statements.

```

'''python
x = 10
if x > 10:
    print("x is greater than 10")
elif x == 10:
    print("x is equal to 10")
else:
    print("x is less than 10")
'''

```

10. **\*\*else\*\***: Specifies a block of code to be executed if the conditional expression in an `if` statement is False.

```

'''python
x = 5
if x > 10:
    print("x is greater than 10")
else:
    print("x is not greater than 10")
'''

```

11. **\*\*except\*\***: Catches exceptions in a `try` block.

```

'''python
try:

```

```

    result = 10 / 0
except ZeroDivisionError:
    print("Cannot divide by zero!")

```

12. **\*\*False\*\***: Boolean value representing false.

```

python
x = False

```

13. **\*\*finally\*\***: Specifies a block of code to be executed regardless of whether an exception is raised or not.

```

python
try:
    result = 10 / 0
except ZeroDivisionError:
    print("Cannot divide by zero!")
finally:
    print("This will always execute.")

```

14. **\*\*for\*\***: Used for looping over a sequence (such as a list or string).

```

python
for i in range(5):
    print(i)
# Output: 0, 1, 2, 3, 4

```

15. **\*\*from\*\***: Used to import specific attributes or functions from a module.

```

python
from math import sqrt
print(sqrt(25)) # Output: 5.0

```

16. **\*\*global\*\***: Declares a global variable inside a function.

```

python
def set_global():
    global x
    x = 10

set_global()
print(x) # Output: 10

```

17. **\*\*if\*\***: Conditionally executes a block of code.

```
``python
x = 5
if x > 0:
    print("x is positive")
``
```

18. **\*\*import\*\***: Imports a module.

```
``python
import math
print(math.sqrt(25)) # Output: 5.0
``
```

19. **\*\*in\*\***: Checks if a value exists in a sequence.

```
``python
my_list = [1, 2, 3]
if 2 in my_list:
    print("2 is in the list")
``
```

20. **\*\*is\*\***: Tests object identity.

```
``python
x = [1, 2, 3]
y = [1, 2, 3]
if x is y:
    print("x and y refer to the same object")
else:
    print("x and y are different objects")
``
```

21. **\*\*lambda\*\***: Creates an anonymous function.

```
``python
add = lambda x, y: x + y
print(add(2, 3)) # Output: 5
``
```

22. **\*\*None\*\***: Represents the absence of a value or a null value.

```
``python
x = None
``
```

23. **\*\*nonlocal\*\***: Declares a variable to be nonlocal, meaning it is not defined in the current function but in an enclosing function.

```

python
def outer_function():
    x = 10
    def inner_function():
        nonlocal x
        x += 5
    inner_function()
    print(x) # Output: 15

```

24. **\*\*not\*\***: Logical operator for negation.

```

python
x = True
result = not x # result is False

```

25. **\*\*or\*\***: Logical operator for disjunction. Returns True if at least one operand is true.

```

python
x = True
y = False
result = x or y # result is True

```

26. **\*\*pass\*\***: A null operation. Used as a placeholder where syntactically some code is required but no action is desired or necessary.

```

python
def my_function():
    pass

```

27. **\*\*raise\*\***: Raises an exception.

```

python
raise ValueError("This is a custom error message")

```

28. **\*\*return\*\***: Exits a function and returns a value.

```

python
def add(x, y):
    return x + y

result = add(3, 5)
print(result) # Output: 8

```

29. **\*\*True\*\***: Boolean value representing true.

```
```python
x = True
```
```

30. **\*\*try\*\***: Specifies a block of code to be tested for errors.

```
```python
try:
    result = 10 / 0
except ZeroDivisionError:
    print("Cannot divide by zero!")
```
```

31. **\*\*while\*\***: Creates a loop that continues until a certain condition is False.

```
```python
i = 0
while i < 5:
    print(i)
    i +=
```

```
1
# Output: 0, 1, 2, 3, 4
```
```

32. **\*\*with\*\***: Simplifies resource management (like file handling) using a context manager.

```
```python
with open("example.txt", "r") as file:
    content = file.read()
```
```

33. **\*\*yield\*\***: Pauses a function, saving its state to be resumed later.

```
```python
def my_generator():
    yield 1
    yield 2
    yield 3

gen = my_generator()
print(next(gen)) # Output: 1
```
```