Python Quick Reference Cheat Sheet
Basics
Variables and Types
Variable: A location in memory to store values.
Variable Type: Defines the type of data that the variable can hold.
Examples:
name = "John" # String variable
age = 25 # Integer variable
price = 19.99 # Float variable
is_active = True # Boolean variable

 		Operators
Ope		Description   Example
+		Addition   3 + 5 # Result: 8
-	1	Subtraction   7 - 2 # Result: 5
*		Multiplication   4 * 3 # Result: 12
/	- 1	Division   10 / 2 # Result: 5.0
//	1	Floor Division   10 // 3 # Result: 3
%	- 1	Modulus   10 % 3 # Result: 1
**	1	Exponentiation   2 ** 3 # Result: 8
   		Control Structures
		Control Structure: Conditionals (if-else)
	ndition	
		lock if condition is true
else:		
# (	Code b	lock if condition is false

```
Example:
age = 18
if age >= 18:
  print("You are an adult")
else:
  print("You are a minor")
      Control Structure: Loops (for, while)
for item in sequence:
  # Code block that repeats for each item in the sequence
Example:
numbers = [1, 2, 3, 4, 5]
for num in numbers:
  print(num)
while condition:
  # Code block that repeats while the condition is true
Example:
counter = 0
while counter < 5:
  print(counter)
  counter += 1
```

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I	Functions and Modules		1
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I	Functions	1	
Function:	A reusable block of code	tnat perio	orms a specinc task.
Syntax:			
def function_na	me(parameters):		
# Function co	de		
return result			
Example:			
def add(a, b):			
return a + b			
result = add(2, 3	3) # Result: 5		

	Modules	
Module:	A file that contains Pytl	hon definitior
Import:		
import mod	ule	
Usage:		
module.fund	ction()	
Example:		
import math	1	
result = mat	h.sqrt(16) # Result: 4.0	
		========
=======	Exception Handling	 ======
try:		
# Code th	at may raise an exception	
except Excep	ptionType as exception_nam	ne:
	ock to handle the exception	

Example:
try:
uy.
result = 10 / 0
except ZeroDivisionError as error:
print("Error:", error)