

Programming Cheat Sheet by PurrG via cheatography.com/200753/cs/42427/

Iteration	
For loop	While loop
for i in range (,):	i = 1
-print (i * 100)	while i <= 5:
-> number of reptationis known.	-print (i * 100)
	-i = i + 1
	-> number of repetitions is unknown.

In summary, while loops are more flexible in terms of the condition they evaluate, making them suitable for situations where the number of iterations is not known beforehand or might change during runtime. For loops are ideal when you need to iterate over a sequence of known length or a predefined collection.

Sub Programs	
declaration of the procedure	declaration of the function
<pre>def proced ure _na me(param01 , param02):</pre>	<pre>def functi on_ nam e(p ara 1_, para2):</pre>
action(s)	action(s)
<pre>proced ure _na me(par am01, param02)</pre>	return variab le_name / expression

In summary, the key difference lies in whether the block of code returns a value or not. Functions return values, while procedures do not. However, in languages like Python, the distinction is less strict, as functions can return None and procedures can still be defined using functions that return None. The choice of using functions or procedures depends on the specific requirements of the task and the programming paradigm being followed.

String (cont) def factor ial(n): print ("s1 and s2 are differ ent print (s1) print (s2) if n == 0: -> displays "-->displays "if s1 == s3: return 1 1LBC2" LBC" else: print ("s1 and s3 are simila r") return n * factor ial(n - 1)else: This is the condition that stops the recursive print ("s1 and s3 are differ ent calls. Recursion can be a powerful tool for solving

Recursion can be a powerful tool for solving problems that can be broken down into smaller, similar subproblems. However, it's essential to ensure that the base case is reachable and that the recursive calls converge towards the base case to avoid infinite recursion. Additionally, recursive solutions may not always be the most efficient, as they can consume more memory due to the recursive calls creating a new stack frame for each function call.

String

String	Length	concatenations	comparing	iterating	ch m
Assignment:	s1 = " 1LB C1"	s = " 1LB C1	s1 = " abc d"	for c in s:	CC
<pre>variab le_name = " val - ue"</pre>	L=len(s1)	s1 = " ASD P 2"	s2 = " abc d"	code	CC
s1 = 1LBC1	print(L)	s2 = s + s1	s3 = " abc d1"	code	C(
Access to characters	-> displays 5	print (s2)	if s1 == s2:	code	CC
s1 = " 1LB C1"	s1 = " 1LB C1"	*->display "- 1LBC1 ASP2"	print ("s1 and s2 are simila r" $$	code	CC
s1 = " 1LB C2"	s2 = s1 [1 : 4]		else:	code	CC



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