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

Cheatography

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)
proced ure _na me(par am01, param02)	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.

Recursivity		String (cont)										
def factor ial(n):		print (sl)	print (:	s2)]	print	("s1	and	s2 ar	e diff	er ent	-	
if n == 0:				")								
return 1		-> displays "-	->displays	s"- if	s1 ==	s3:						
else:		1LBC2"	LBC"				,	0				
return n * factor	ial(n - 1)]	print	("sl	and	s3 ar	e simi	la r")		
This is the condition that stops the recursive calls.				el: 1	se: print	("s1	and	s3 ar	e diff	er ent	-	
problems that can be broken dow smaller, similar subproblems. How essential to ensure that the base reachable and that the recursive converge towards the base case infinite recursion. Additionally, rec solutions may not always be the re efficient, as they can consume me memory due to the recursive calls new stack frame for each function	n into wever, it's case is calls to avoid cursive most ore s creating a n call.											
String	Length	concate	enations	comparin	ıg					itera	ting	ch m
Assignment:	s1 = " 1LB	C1" s = "	1LB C1	s1 = "	abc d'	,				for	c in	s: co
<pre>variab le_name = " val - ue"</pre>	L=len(s1)	s1 = 2"	" ASD P	s2 = "	abc d'	,				code	0)	C
s1 = 1LBC1	print(L)	s2 =	s + s1	s3 = "	abc d1					code	e	CC
Access to characters	-> displays 5	print	(s2)	if s1 =	== s2:					code	e	CC
s1 = " 1LB C1"	s1 = " 1LB	C1" *->disp 1LBC1	lay "- ASP2"	print)	: ("s1	and	s2 a:	re si	mila r'	" code	9	C
s1 = " 1LB C2"	s2 = s1 [1	: 4]		else:						code	e	CC

С

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Not published yet. Last updated 18th February, 2024. Page 2 of 2. Sponsored by Readable.com

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