	Chapter 7 - Loops in Python
	Sometimes we want to repeat a set of statements in our program. For instance: Print 1 to 1000
3/1	Loops make it easy for a programmer to tell the computer, which set of instructions to repeat and how!
17 27	Types of loops in Python Primarily there are two types of loops in Python While loop For bop
	We will look into these one by one!
111	While loop The syntax of a while loop looks like this:
	While Condition: => The block Reeps executing until the andtion is true
	In while loops, the condition is checked first. If it evaluates to true, the Body of the loop is
	If the loop is entired, the process of [condition check & execution] is continued until the condition becomes false.
	Quick aug: Write a program to print 1 to 50 using a while loop.
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	An Example
-30	i = 0 while i < 5: print ("Harry") i = i + 1
toda 1	Note: If the condition never becomes false, the
	Quick Quiz: Write a program to print the content of a list using while loops.
	For loop A for loop is used to iterate through a sequence like list, tuple or string [Ikrables]
white	The syntax of a for loop looks like this:
17:	l = [1, 7, 8] for item in l: print (item) print 1, 7 and 8
31	De la Carlina i P. Mar
dod's	The range function in python is used to generale a sequence of numbers
	We can also specify the Start, Stop and Step-513e as follows: range (Start, Stop, Sklan-Size)
	used with range()

	An Example demonstrating ranger) function
X.	CAROLI TRUBELLO SAL GENA CI CAROLI AL SUMAROLI
2	for i in range (0, 7): → range (7) can also be used print (i) → prints 0 to 6
	print (i) > brints 0 to 6
	For loop with else
	An optional close can be used with a for loop if the code is to be executed when the loop exhausts Example:
	if the code is I be executed when the look exhausts
	Travell &
	Example.
	l = [1, 7, 8]
	for item in l
	for item in l: print (item) else:
	else:
	print ("Done") - This is printed when the
	Output:
	i alemny d
	7
	8 I m mil m
TN.	Done
	man on had this
	The break statement
	'break' is used to come out of the loop when encountered
	'break' is used to come out of the loop when encountered It instructs the program to - Exit the loop now
	Example:
	for i in range (0,80): print (i) This will print 0, 1, 2
	print (i) > This will print 0, 1, 2
	if i = 3: and 3
	if i == 3: and 3 break
	Drcak

The continue statement 'continue' is used to stop the current iteration of the loop and continue with the next one It instructs the program to "skip this iteration" Example: for i in range (4):

print ("printing")

if i = 2: => if i is 2, the iteration

(continue is skipped

print (i) pass stakment
pass is a null stakment in python
It instructs to "Do nothing" Example: l = [1, 7, 8] for item in l: pass -> Without pass, the program Will throw an cruo