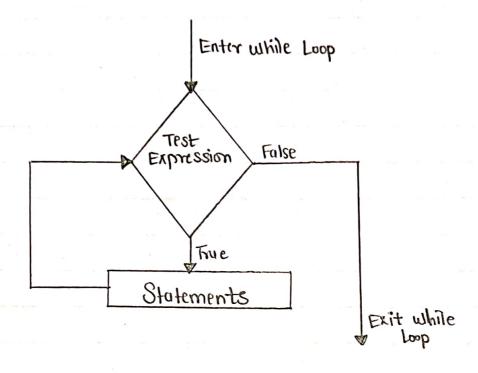
Dote:

Aim: White a program in python to demonstrate execution of Loops.

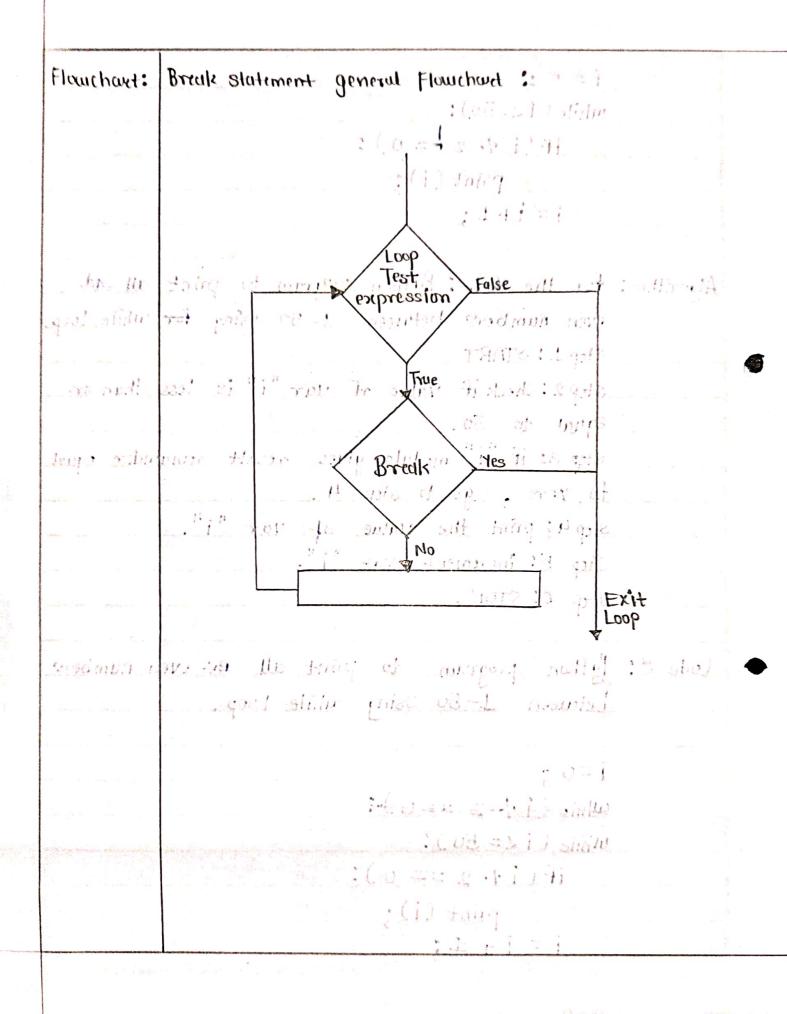
Flouscharet: While Loop's general flow charet:



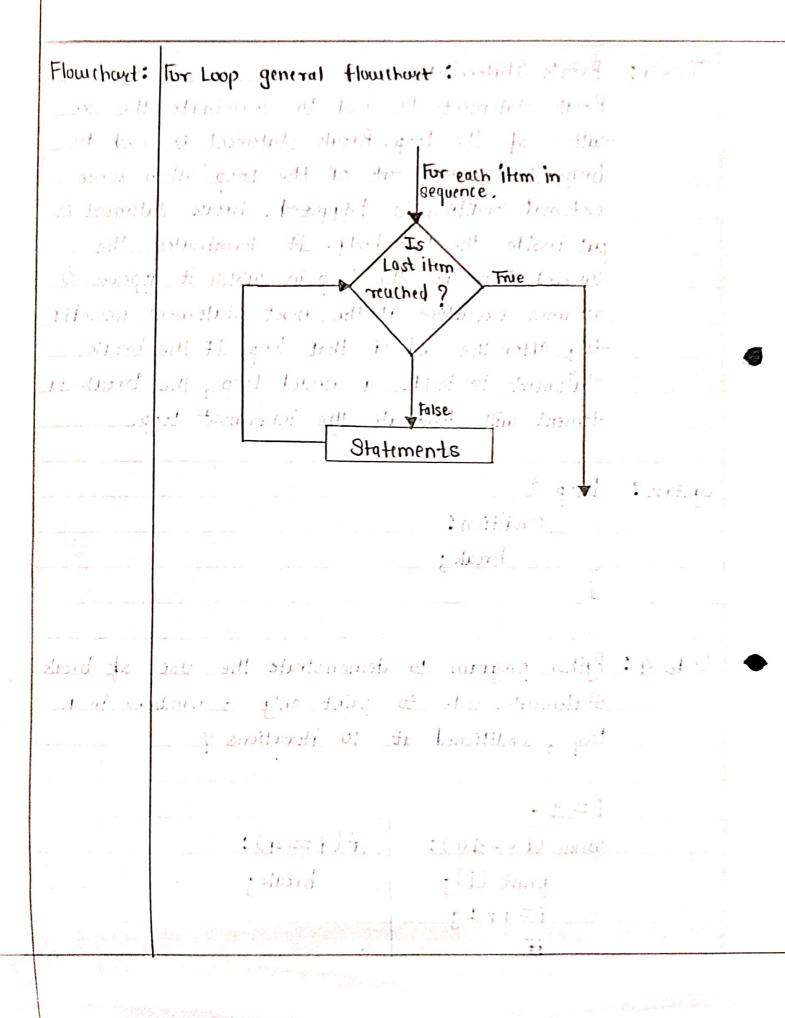
Date:
Aim: White a program in pythen to demonstrate exercises
Theory: There are two primitive Loops in python: - While Loop. - tor Loop.
af indefinite iteration is the number of times the loop is executed isn't specified explicitly to advances. While Loop is used to executed a block of atatements repeatedly until a given condition is satisfied. When the condition becomes false, the Line immediately after the Loop in the program is executed. Syntax: while expression:
Algorithm: For the code: Python program to print Numbers from 1-10 using while Lonp. Step 1: Start Step 2: Check if value of var"!" is less than arequal to 10, while i is less than equal to 10 go to step: orthermulae go to step 5.

	Step 3: print the value of "i". Step 4: increment "i" by 1 Step 5: STOP.
Code 7:	Python program to print Numbers from 1 to 10 Using While I nop.
	i= ±; while(i<= ±0):
	pmnt (i); i=1+4;
Algorithm:	For the code: Python program to print odd numbers using while Inop. (1-50)
	Step 1: 8TART Step 2: Check if the value of vor "i" is less than equal to 50, while "i" is less than equal
	to 50 Ago to step 43 ortherwise go to step 5. Step 3: increment the value of "i" by 2
	strp 4: print the Value of "i", while (i.1.2!=0) stop 5: STOP
Code 2:	Python program to print all add numbers between 1-50 using the while Loop.

i =	= 0 5
wh	ile (1 <= 50):
	if (i 1/- 2 = 0):
	print(i);
	i= i+±;
Algorithm: for	the lode: Python program to print all stel
PVP	n numbers between 1-50 using for while loop
	P1: START
Str	p2: Check if value of var "1" is less than on
equ	ial to 50.
ste	P 3: if " modulo gives result remainder equal
to	rem, go to step 4.
Step	4: print the value of var "i".
	5: Increment vove 17".
	C: STOP
Tanasa	
Code 3: Pyt	hon a program to print all Ex even numbers
	ween 1-50 Using while Loop.
i=	0 :
whi	He (i + 2 = = 0):
whi	ne (i <= 50):
	$if(i \cdot \cdot \cdot \cdot \cdot \cdot = 0):$
	print (i)
	i=i+1;



	-
Theory: Break Statements:	
Break statement 1s used to terminate the exe	
- ution of the Loop. Break statement is used to	
bring the control out of the loop when some	
external condition is triggered break statement i	<u></u>
pet inside the loop body. It terminutes the	
current loop ie the loop in which it appears &	<u></u>
resumes execution of the next statement immedi	
tely after the end of that loop. If the break	
Statement is inside a nested loop, the break st	a
-toment will terminate the innermost Loop.	
Syntax: Loop &	
condition:	
break:	
Code 4: Python program to demanstrate the use of brown	ık
Statement. Tode to print only 3 numbers in a	
loop, conditioned at 10 iterations?	
	_
i= ± ;	
while (i <= 10): if (i == 4):	
print (i); break;	-
i=i+1;	
音	



For loop:
It has the abality to iterate over the items
of any sequence, such as List or a String. A
for Lonp is used for iterating over a sequence
(that is a list, a tupple, a dictionary, a set
or a string). This is less like the "for" keyword in
Other programming language & works mere like an
iterator method as found in other object oriented
programming Languages. With the for loop we can
execute a set of statement, once for each item
in a list tupples on a set.
Syntax: for iterating von in sequence:
Statements 3
Algorithm: For the code: Python program to print the prede
-fined Away
Strp 1 ASTARTS F & SHINE
Strp 2: Initialize the list called 'Fruits' containing
the elements.
Step 3: For each element in x in the 'fruits' list:
print 'x' followed by a space.
step4: For each character 'x' in the string 'Banand':
print x followed by a space.
step 5: STOP

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Code 5:	fruits = ["Banuna", "Apple", "Gauva"]
	for x in fruits:
	print (x, end = " ");
	for x in "Banana":
	print(x);
	For the lode: Python program to demonstrate the
	use of "runge" function.
	Step 1: START
-,	strp 2: initialize a range starting from 5, ending
	before 100 with a step of 5.
	Stip 3: For each value "x' in this range:
	print 'x' followed by a spare.
	Step 4: STOP
Code 6:	for x in range (10): //09
2	print (x, end = ");
	ADISE & SHINE
Code 7:	for x in runge (5, 10): 1159
	print (x, end = " ");
	. 1
Code 8:	for x in range (5, 100, 5): 115, 10, 15, 95
	print (x, end ="");
2 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Conclusion	The practical has been successfully studied.
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