

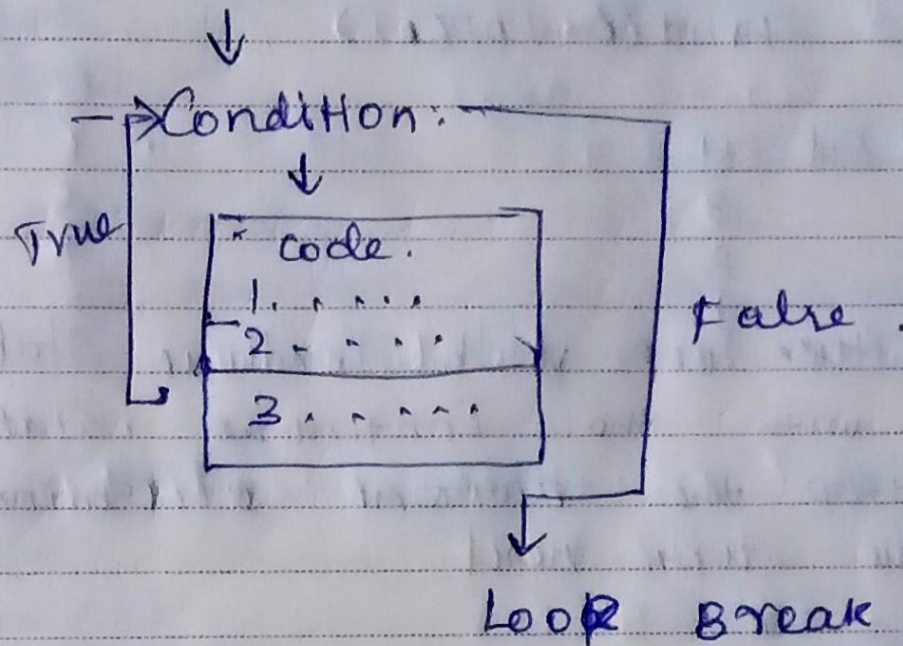
Day - 06

Loop Condition

while

It is used to iterate over a block of code as long as the test condition is true.

Generally, this loop will use we don't know the number of iterate beforehand



Syntax:

while expression:
statement(s)

Examples:

1. Python while loop

Count = 0

while (Count < 3)

Count = Count + 1

Print ('Hello Green')

July 2017							August 2017							September 2017						
M	T	W	T	F	S		S	M	T	W	T	F	S	S	M	T	W	T	F	S
30	31				1				1	2	3	4	5						1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	30

Output .

Hello Greack

Hello Greack

Hello Greack

2. While loop with list

a = [1, 2, 3, 4]

while a:

print(a.pop())

POP → [remove and returns the last value from the list]

Output

4

3

2

1

3. For loop with Continue Statement.

with the Continue Statement we can stop the current iteration, and continue with next.

Ex

i = 0

while i < 6

i += 1

if i == 3

continue

print(i)

Output

1

2

4

5

6

4. The break Statement

with the break statement we can stop the loop even if the while condition is true.

```
i = 1
while i < 6:
    print(i)
    if i == 3:
        break
    print(i)
    i = i + 1
```

output

1
2
3

5. else Statement

print a message once the condition is true.

```
i = 1
while i < 6:
    i += 1
    print(i)
```

else:

("i is have less than 6")

6. loop with tuple (immutable)

```
print('tuple iteration')
t = ('geeks', 'for', 'geeks')
for i in t:
    print(i)
```

July 2017							August 2017							September 2017						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
30	31				1			1	2	3	4	5								1
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	

Output
Geeks
for
Geeks

Iteration over a string
print(' * string iteration ')

5* S = 'Geeks'.

for i in range:

print(i)

↳

Output

G
e
e
k
s



RUN AND DEBUG: RUN ...

Run and Debug

To customize Run and Debug [create a launch.json file](#).

Show all automatic debug configurations.

day06_excercise1.py X

vs code > day06_excercise1.py > ...

```
1 #print first ten numbers sum value
2 num=10
3 sum=0
4 while num>=1:
5     sum=sum+num
6     num=num-1
7     print(sum)
8
9 #calculate first ten even number sum
10 number=2
11 sum=0
12 while number<=20:
13     sum=sum+number
14     number=number+2
15     print(sum)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
55
2
6
12
20
30
42
56
72
90
110
PS C:\Users\abinaya\Desktop>
```

+ v ^ x

- Python
- Python
- powershell
- Python
- Code
- Python Deb...
- Python Deb...