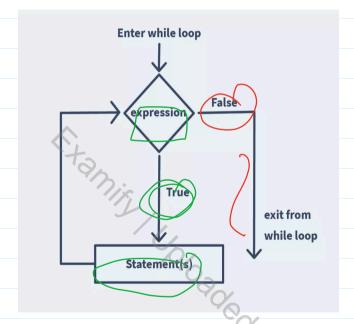
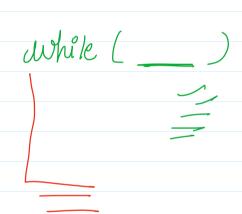
## Week 3 Lecture :2 While Loop in Python uesday, 16 July 2024 12:09 PM What is While Loop in Python? While loop statement in Python is used to execute statement(s) repeatedly-It will keep on repeatedly executing as long as a while condition is true, and it will stop repeating only if the condition becomes false. Syntax of While Loop in Python

## while expression:

statement(s)

## Flowchart of While Loop in Python





Junalia

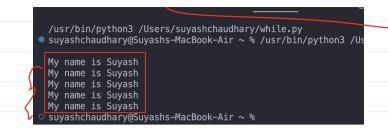
```
while.py X

Users > suyashchaudhary > while.py > ...

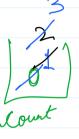
1    count = 0;
2    while count < 5;
3         print("My name is Suyash")
4         count += 1

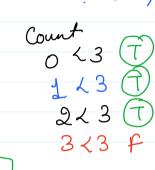
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 5;</pre>
```

>> 8h



## Example





$$C = C + 1$$
 $C = 0 + 1$ 
 $C = 1$ 
 $C = 1 + 1$ 
 $C = 2$ 
 $C = 2 + 1$ 

- 1.Print all factors/divisor of a given +ve number.
- 2.Read N,Print No of digits in N.

$$0|p = 4$$



1.Print all factors/divisor of a given +ve number.

$$N = 10 \quad \text{factor} = 1,2,5,10$$

$$N = 36 \quad \text{factor} = 1,2,3,4,6,12,18,36 \quad \text{obv.}$$

$$\text{range}[1,N] \quad |_{\text{loop}} \text{ start} \Rightarrow \bot$$

$$\text{end} = N$$

$$N = \text{Int}(\text{input}()) \quad |_{\text{3}} \text{ 3}$$

$$\Rightarrow [ \bot \quad |_{\text{1}} \text{ 1} \text{ 2} \text{ 3} \text{ 3} ]$$

$$\text{if}(N\% \underline{i} = 0) \quad \text{finite}(\text{factor})$$

$$\text{print}(\underline{i}) \quad \text{if} \quad |_{\text{1}} \text{ 2} \text{ 3} \text{ 3$$





d=0

$$N = 100 \rightarrow 3$$

$$N = 5926 \rightarrow 5$$

N / 10 =>5926 /10 
$$\rightarrow$$
4 times divide => 4 digit

$$N = int(input())$$

$$digit = 0 \rightarrow Initialization$$

$$N = N//10 \rightarrow Update$$
 (integer division)

$$N = 10$$

$$=0$$

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