

While Loops







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While loops will continue to execute a block of code **while** some condition remains True.

For example, **while** my pool is not full, keep filling my pool with water.

Or **while** my dogs are still hungry, keep feeding my dogs.







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Syntax of a while loop

while some_boolean_condition: #do something





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You can combine with an else if you want

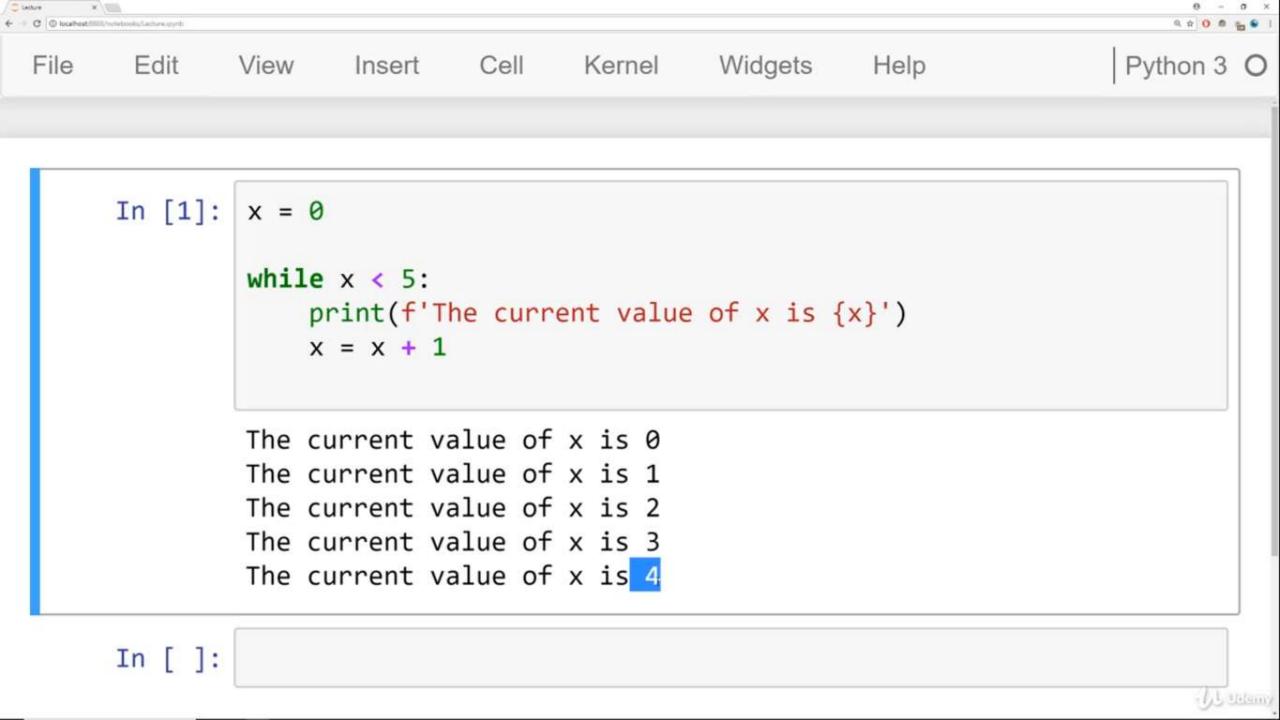
```
while some_boolean_condition:
    #do something
else:
    #do something different
```





Let's explore these concepts!

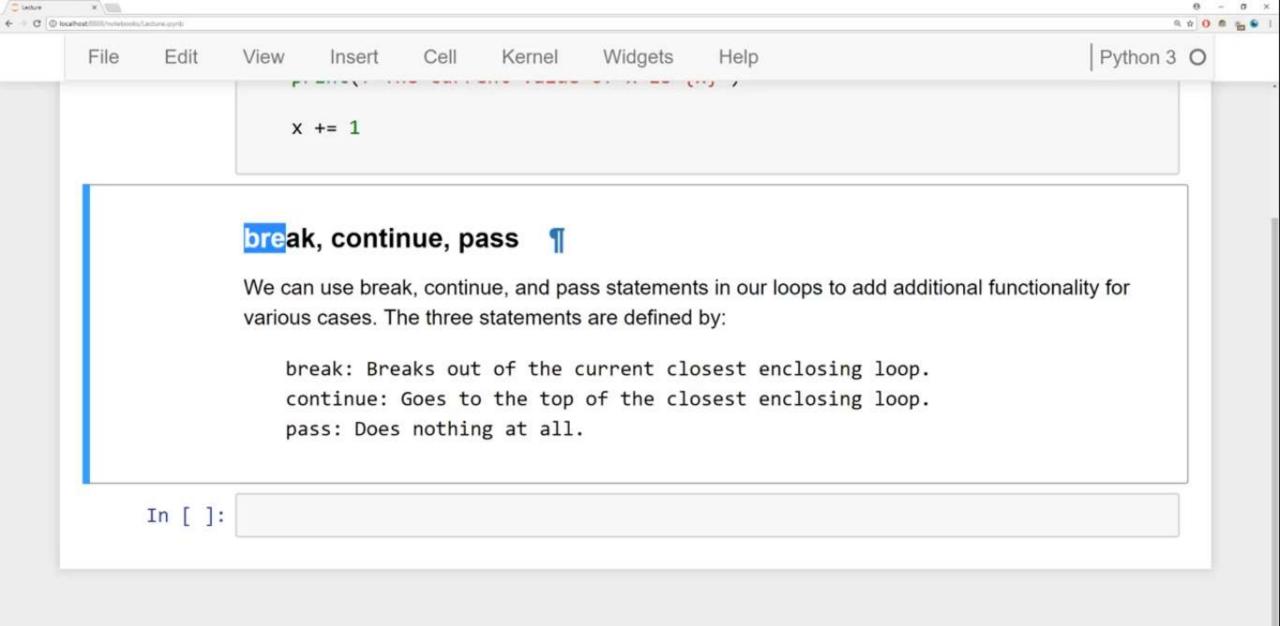


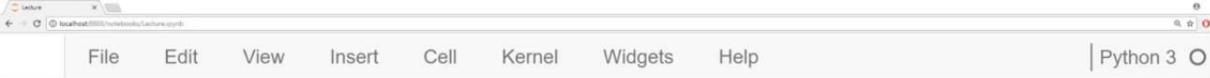


```
In [3]: x = 0
while x < 5:
    print(f'The current value of x is {x}')
    x += 1
else:
    print("X IS NOT LESS THAN 5")</pre>
The current value of x is 0
```

The current value of x is 1
The current value of x is 2
The current value of x is 3
The current value of x is 4
X IS NOT LESS THAN 5

- J. Leismy





break, continue, pass

In []:

We can use break, continue, and pass statements in our loops to add additional functionality for various cases. The three statements are defined by:

break: Breaks out of the current closest enclosing loop.

continue: Goes to the top of the closest enclosing loop.

pass: Does nothing at all.

```
In [6]: x = [1,2,3]
for item in x:
    # comment

File "<ipython-input-6-b7255e8c2a99>", line 4
    # comment

SyntaxError: unexpected EOF while parsing
```





