WHILE LOOPS Star Gray

## What are while loops? While loops will execute a code while the condition remains true.

syntax:

While condition is true:

execute this statement

else, elif statement can be combined

```
In [3]: 1 s = 3
         3 while s < 7:
             print(f'The current value of s is {s}')
        5
              s = s + 1
        The current value of s is 3
        The current value of s is 4
        The current value of s is 5
        The current value of s is 6
In [4]: 1 s = 3
         3 while s < 7:
         4
             print(f'The current value of s is {s}')
         5
               s += 1
        The current value of s is 3
        The current value of s is 4
        The current value of s is 5
        The current value of s is 6
        NOTE: s += 1 is a shorter way to write s = s + 1 (as show above)
In [5]: 1 s = 3
         2
         3 while s < 7:
             print(f'The current value of s is {s}')
               s += 1
         6 else:
         print('s is not less than 5')
        The current value of s is 3
        The current value of s is 4
        The current value of s is 5
        The current value of s is 6
        s is not less than 5
In [6]: 1 s = 50
         3 while s < 7:
             print(f'The current value of s is {s}')
         5
               s += 1
         6 else:
         7 print('s is not less than 5')
        s is not less than 5
```