```
while -> während
```

arbeiten mit einer Bedingung -> Boolean z.B. x < 10 solange diese Bedingung True ist, wird die Schleife wiederholt Achtung: Endlosschleife

for

115

laufen über ein Objekt -> Iterable

```
In [2]:
                                                                                                 H
    x = 0
 1
 2
 3
    while x < 10:
 4
         print(x)
 5
        x += 1 \# x = x + 1
 6
    print('Schleife beendet')
 7
0
1
2
3
4
5
6
7
8
9
Schleife beendet
In [9]:
                                                                                                 M
 1
    for i in range(-5, 123, 12): # range(start, stop, step)
 2
         print(i)
-5
7
19
31
43
55
67
79
91
103
```

```
In [10]:

1  text = 'Hello World!'
2  for c in text:
4    print(c)
H
```

W o r l

Ţ

e 1 1 o

break und continue

break : unterbricht eine Schleife und beendet die Schleife

continue: unterbricht eine Schleife und fängt wieder von vorne an

```
In [14]:
```

```
1
   x = 0
 2
 3
   while True:
       print('schleife')
4
5
       if x == 4:
 6
            break
7
       print('immer noch schleife?')
8
       x += 1
 9
10 print('nach der Schleife')
```

```
schleife
immer noch schleife?
schleife
immer noch schleife?
schleife
immer noch schleife?
schleife
immer noch schleife?
schleife
nach der Schleife
```

7

```
In [18]:

pw = 'silverfish12'

while True:
    user_entry = input('Please enter the password: ')
    if user_entry == pw:
        break
```

Please enter the password: Silverfish12
The password is incorrect!
Please enter the password: silverfish12
The password is incorrect!
Please enter the password: silverfish12
Access granted!

print('Access granted!')

print('The password is incorrect!')

In [19]:

```
pw = 'silverfish12'
 2
   is_pw_correct = False
 3
 5
   while not is_pw_correct:
 6
        user_entry = input('Please enter the password: ')
 7
        if user_entry == pw:
            is_pw_correct = True
 8
 9
        else:
            print('The password is incorrect!')
10
11
12 print('Access granted!')
```

```
Please enter the password: pass
The password is incorrect!
Please enter the password: asdas
The password is incorrect!
Please enter the password: asdef
The password is incorrect!
Please enter the password: sdfs
The password is incorrect!
Please enter the password: silverfish12
Access granted!
```

```
H
In [23]:
  1
    x = 0
 2
 3
    while x < 5:
 4
         print(x)
 5
         x += 1
 6
         continue
 7
         print('nach continue')
0
1
2
3
4
In [24]:
                                                                                                  M
    pw1 = 'silver'
```

```
pw2 = 'fish'
 4
   while True:
 5
        user_entry_1 = input('FIRST password: ')
 6
        if user_entry_1 != pw1:
 7
            print('The password is incorrect!')
 8
            continue
 9
        user_entry_2 = input('SECOND password: ')
        if user_entry_2 != pw2:
10
            print('The password is incorrect!')
11
12
            continue
13
        break
14
   print('Access granted!')
15
```

```
FIRST password: pass
The password is incorrect!
FIRST password: silver
SECOND password: pass
The password is incorrect!
FIRST password: silver
SECOND password: fish
Access granted!
```