

Playing around with the Loops



var = 0

while **var** < 10 :

 print(**var**)

var = **var** + 1

 print ("bye")

var = 0

while *expression*
var < 10 :

body



```
print(var)
var = var + 1
```

print ("bye")

→ **var** = 0

while **var** < 10 :

 print(**var**)

var = **var** + 1

 print ("bye")

var = 0

→ while ⁽⁰⁾ **var** < 10 :

print(**var**)

var = **var** + 1

print (“bye”)

var = 0

→ while ⁽⁰⁾ **var** < 10 :

True (*good to go into the while body*)

print(**var**)

var = **var** + 1

print ("bye")

Output:

0

var = 0

while **var**⁽⁰⁾ < 10 :

→ print(**var**)⁽⁰⁾

var = **var** + 1

print (“bye”)

Output:

0

var = 0

while **var** < 10 :

 print(⁽⁰⁾**var**)

 (0 + 1)
 → **var** = **var** + 1

 print ("bye")

Output:

0

var = 0

while **var** < 10 :

print(**var**)

(1) ← (0 + 1)
→ **var** = **var** + 1

print ("bye")

Output:

0

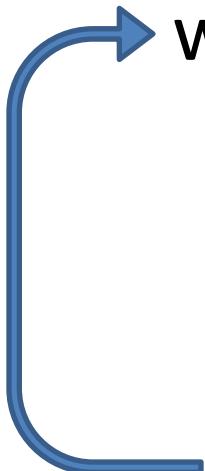
var = 0

while **var** < 10 :

 print(**var**)

var = **var** + 1

 print ("bye")



Output:

0

var = 0

→ while ⁽¹⁾ **var** < 10 :

True (*good to go into the while body*)

print(**var**)

var = **var** + 1

print ("bye")

Output:

var = 0

0
1

while **var** < 10 :

→ print(**var**)

var = **var** + 1

print (“bye”)

Output:

var = 0

0
1

while **var** < 10 :

print(**var**)

(1 + 1)
→ **var** = **var** + 1

print ("bye")

Output:

var = 0

0
1

while **var** ⁽¹⁾ < 10 :

print(**var**)

(2) ← (1 + 1)
→ **var** = **var** + 1

print ("bye")

Output:

var = 0

0
1

while ⁽²⁾ **var** < 10 :

 print(**var**)

var = **var** + 1

 print ("bye")

Output:

0
1

var = 0

→ while **var** ⁽²⁾ < 10 :

True (*good to go into the while body*)

print(**var**)

var = **var** + 1

print ("bye")

Output:

var = 0

0
1
2

while **var** < 10 :

→ print(**var**)

var = **var** + 1

print (“bye”)

Output:

var = 0

0
1
2

while **var** < 10 :

print(**var**)

(2 + 1)
→ **var** = **var** + 1

print ("bye")

Output:

var = 0

0
1
2

while **var** < 10 :

print(**var**)

(3) ← (2 + 1)
→ **var** = **var** + 1

print ("bye")

Output:

var = 0

0
1
2

while ⁽³⁾ **var** < 10 :

 print(**var**)

var = **var** + 1

 print ("bye")

Output:

0
1
2

var = 0

while **var** < 10 :

 print(**var**)

var = **var** + 1

 print ("bye")

Output:

var = 0

while **var** < 10 :

print(var)

 (10) ← (9 + 1)

 → **var** = **var** + 1

print ("bye")

0
1
2
3
4
5
6
7
8
9

Output:

var = 0

while **var** < 10 :

 print(**var**)

var = **var** + 1

 print ("bye")

0
1
2
3
4
5
6
7
8
9

Output:

0
1
2
3
4
5
6
7
8
9

var = 0

→ while **var** < 10 : *(10)* False (*skip while body*)

~~print (var)~~
~~var = var + 1~~

print ("bye")

Output:

var = 0

while **var** < 10 :

 print(**var**)

var = **var** + 1

→ print ("bye")

0
1
2
3
4
5
6
7
8
9
bye

```
for var in range(0, 10, 1):
```

```
    var = 0
```

```
        print(var)
```

```
    while var < 10 :
```

```
        print("bye")
```

```
        print(var)
```

```
    var = var + 1
```

```
print ("bye")
```

for **var** in range(**0**, **10**, **1**):

 print(**var**)

 print("bye")

var= **0**

for **var** in range(**0**, **10**, **1**):

 print(**var**)

 print("bye")

var= **0** | **9**

Output:

for **var** in range(**0**, **10**, **1**):

0
1
2 ↪ print(**var**)
3
4
5 print("bye")
6
7
8
9
bye var=

0	1	2	3	4	5	6	7	8	9
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