



# PYTHON BOOTCAMP

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# LOOPS



- **For Loop:** Known iteration
- **While Loop:** Unknown iteration

## Rule of Thumb:

If you can count it use for loop,

If you are waiting for a condition use while loop

# LOOPS



## For Loop:

```
4  for i in range(5):           # 0, 1, 2, 3, 4
5      print(i)
6
7  for i in range(1, 6):        # 1, 2, 3, 4, 5
8      print(i)
9
10 for i in range(0, 10, 2):     # 0, 2, 4, 6, 8
11     print(i)
12
13 # While Loop
14 count = 0
15 while count < 5:
16     print(count)
17     count += 1
```

# LOOPS



## While Loop:

```
14     count = 0
15     while count < 5:
16         print(count)
17         count += 1
```

# LOOPS



## Loop control statement:

```
22  for i in range(10):
23      if i == 3:
24          continue    # Skip this iteration
25      if i == 7:
26          break        # Exit the loop
27      print(i)
```

# LOOPS



## Nested Loop:

```
30  for i in range(2):  
31      for j in range(3):  
32          print(f"({i}, {j})")
```

# LOOPS



## Exercises:

1. Create a multiplication table generator.
2. Write a program that finds all prime numbers up to a given number.  
(limit = 20)