Loops

```
primes = [2, 3, 5, 7]
for prime in primes:
    print(prime)

print()

for n in range(len(primes)):
    print(primes[n])

7
```

count += 1 # count = count + 1

[2]

count = 0

while count < 5:

print(count)

```
    Use loops to go through lists one by one
```

- The two main types of loop in Python are **for** [1] and **while** [2] loops
- for item in list: is a shorthand that assigns each item to a variable (item in this case)
- otherwise, you can use range(len(list)) to go through each index
- while loops keep on going until a condition is met, then stop when it becomes True

Exercise: fizz_buzz

```
Fizz
Buzz
Fizz
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
```

- A classic interview question!
- Write a function that takes a number to go up to
- Then it counts up the numbers
- It prints "Fizz" if the number divides by 3
- It prints "Buzz" if the number divides by 5
- It prints "FizzBuzz" if the number goes into both 3 and 5
- It prints the number in all other cases
- See the example from 1 15 on the left
- The modulo operator % sure comes in handy here!