Dictionaries

- Dictionaries (called "hash maps", "lookup tables" or sometimes "objects" in other languages) are useful when you need to quickly look up a value, and order isn't important
- They take the form of key-value pairs {"key": "value"}
- Get a key's value using square brackets: dict["key"] or dict.get("key")
- You can also update it by passing in a new dictionary: dict.update({"key":"new-value"})

```
dict = {"one": 1, "two": 2, "three": 3}
print(dict["one"]) # => 1
print(dict.get("two")) # => 2
dict.update({"three":33})
print(dict["three"]) # => 33
```

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