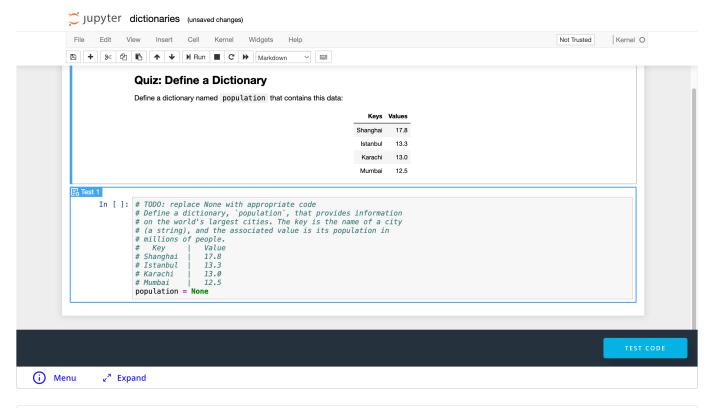


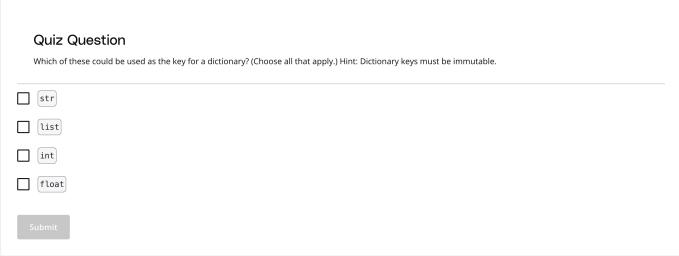


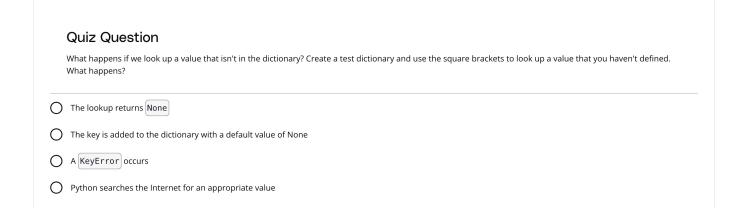


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## Quiz: Dictionaries and Identity Operators







## get with a Default Value

Dictionaries have a related method that's also useful,  $\boxed{\text{get()}}$  looks up values in a dictionary, but unlike looking up values with square brackets,  $\boxed{\text{get()}}$  returns None (or a default value of your choice) if the key isn't found. If you expect lookups to sometimes fail,  $\boxed{\text{get()}}$  might be a better tool than normal square bracket lookups.

```
>>> elements.get('dilithium')
None
>>> elements['dilithium']
KeyError: 'dilithium'
>>> elements.get('kryptonite', 'There\'s no such element!')
"There's no such element!"
```

In the last example we specified a default value (the string 'There's no such element!') to be returned instead of None when the key is not found.

## Checking for Equality vs. Identity: == vs. is

## **Quiz Question**

What will the output of the following code be? (Treat the commas in the multiple choice answers as newlines.)

```
a = [1, 2, 3]
b = a
c = [1, 2, 3]

print(a == b)
print(a is b)
print(a == c)
print(a is c)
```

If you want to run test code, use the coding space from earlier in the lesson.

- True, True, True, True
- True, False, True, False
- True, True, True, False
- True, True, False, False

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