Help Center

## **Dictionaries**

Quick Reference:

## **Exercise 1 - Dictionary Creation**

Write a function

that takes a list of keys and a default value and creates a dictionary containing these keys with each key mapping to the given default value.

Assert your function produces the following output:

```
>>> make_dict(["a","b","c"], "z")
{'a': 'z', 'c': 'z', 'b': 'z'}
```

```
>>> make_dict([], [])
{}
```

## **Exercise 2 - Value Assertion**

Write a function

```
def ensure_key_value_pair(pairs, key, expected_value):
    Checks to ensure that the mapping of key in pairs matches the given expected value
    If the state of pairs is such that the given key is already mapped to the given ex
pected value
   this function in no way modifies the dictionary and returns the given dictionary.
    If the state of pairs is such that the given key does not map to the given expecte
d value
    (or no such key is contained in pairs) then update (or add) the mapping of key to
    the given expected value and return the given dictionary.
    Arguments:
    pairs
                   -- A dictionary to check for the expected mapping.
                  -- The key of the expected mapping.
    key
    expected_value -- The the value of the expected mapping.
    Returns:
    The given dictionary.
    11 11 11
    . . .
```

that returns the given dictionary if the lookup value of the dictionary under the given key has the same value as expected\_value. Otherwise, ensure that the value at key for the given dictionary is expected\_value and return the updated dictionary.

Note: You may find the dict method has\_key(key) which tests whether the given key is contained in the dictionary useful.

Assert your function produces the following output:

```
>>> pairs = { 1:"a", 2:"b" }
>>> ensure_key_value_pair(pairs, 1, "a")
{1: 'a', 2: 'b'}
>>> ensure_key_value_pair(pairs, 2, "z")
{1: 'a', 2: 'z'}
>>> ensure_key_value_pair(pairs, 3, "x")
```

## More information

{1: 'a', 2: 'z', 3: 'x'}

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