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Lesson: Unit 2 – Python Dictionaries

1. Create a simple dictionary that stores 2 variables, for example: first and last name.

```
simple_dict = {'first': 'last'}
```

2. Print out those variables stored in your previous dictionary.

```
for k, v in simple_dict.items():
  print(k, v, sep=': ')
```

```
first: last
```

3. Add a message to those variables on printing: for example: "Hello, firstname lastname!"

```
for k, v in simple_dict.items():
  print(f"Hello, {k} {v}!")
```

```
Hello, first last!
```

4. Create a dictionary that holds 2 key: value pairs:
   a. Look through your dictionary and print each pair,

```
my_dict = {'very': 'cool',
           'really': 'awesome'}

for k, v in my_dict.items():
  print(k, v)
```

```
very cool
really awesome
```

5. Create a nested dictionary containing three dictionaries – these dictionaries could be anything (favorite pets, travel locations, etc.)
   a. Loop through the dictionaries and print a message for each.

```python
people = {1: {'name': 'John', 'age': '27', 'sex': 'Male'},
          2: {'name': 'Marie', 'age': '22', 'sex': 'Female'},
          3: {'name': 'Luna', 'age': '24', 'sex': 'Female'}}
```

```python
def print_nested(dict_):
  for k, v in dict_.items():
    if isinstance(v, dict):
      yield from print_nested(v)
    else:
      yield (k, v)

for k, v in print_nested(people):
    print(k, v)
```

```
name John
age 27
sex Male
name Marie
age 22
sex Female
name Luna
age 24
sex Female
```