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Lesson: Unit 2 – Python Dictionaries

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

```
names = {  
    "Katie" : "Salas",  
    "Frankie" : "Rose"  
}
```

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

```
names = {  
    "Katie" : "Salas",  
    "Frankie" : "Rose"  
}  
print(names)
```

```
{'Katie': 'Salas', 'Frankie': 'Rose'}
```

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

```
names = {  
    "Katie" : "Salas",  
    "Frankie" : "Rose"  
}  
for key, value in names.items():  
    print("Hello " + key + " " + value + "!!")
```

```
Hello Katie Salas!!  
Hello Frankie Rose!!
```

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

```
pets = {  
    "cat" : "Cato",  
    "turtle" : "Mr. T"  
}  
for key, value in pets.items():  
    print("\nAnimal: " + key + "\tName: " + value)
```

```
Animal: cat      Name: Cato
```

```
Animal: turtle   Name: Mr. T
```

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.

```
travel = { 1: {"City" : "Paris", "State" : "Texas", "Month" : "September"},
           2: {"City" : "Cairo", "State" : "Illinois", "Month" : "October"},
           3: {"City" : "Rome", "State" : "Georgia", "Month" : "November"}}
for i, info in travel.items():
    print("\nThe #" + str(i) + " place I'd like to go is: ")
    for key in info:
        print(key + ":", info[key])
```

The #1 place I'd like to go is:  
City: Paris  
State: Texas  
Month: September

The #2 place I'd like to go is:  
City: Cairo  
State: Illinois  
Month: October

The #3 place I'd like to go is:  
City: Rome  
State: Georgia  
Month: November