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Lesson: Unit 2 – Python Dictionaries

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

```
name = {  
    "firstName": "Adnaan",  
    "lastName": "Syed"  
}
```

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

```
print(name["firstName"])  
print(name["lastName"])
```

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

```
print("Hello " + name["firstName"] + " " + name["lastName"])
```

4. Create a dictionary that holds 2 key: value pairs:

- a. Look through your dictionary and print each pair,

```
students = {  
    "Adnaan Syed": "4.0",  
    "Affra Husain": "3.5",  
    "Fawzia Syed": "3.0"  
}
```

```
for key, value in students.items():  
    mssg = "The student's name is {} and their GPA is {}"  
    print(mssg.format(key, value))
```

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.

```
favSubTopicsInTopics = {
    "Math": {"Linear Algebra": "The collapse of higher dimensional data was
interesting", "Statistics": "Regression Analysis"},
    "English": {"Poetry": "Stream of Consciousness poetry was always fun",
"Horror Stories": "SPOOOKY!!!"},
    "Gym": {"Basketball": "Only full-body sport I'm not terrible in",
"Ping-Pong": "Less energy consuming but still lots of fun"}
}

for key,value in favSubTopicsInTopics.items():
    print("One of my fav subjects in school was " + key)
    print("Some topics I liked in that were:")

    for subkey,subvalue in value.items():
        mssg = subkey + ", because " + subvalue
        print(mssg)

print()
```