

Name: Tamzid Chowdhury

Lesson: Unit 2 – Python Dictionaries

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

```
▶ fullname = {'first_name' : 'David', 'last_name' : 'Warner'}
```

```
[ ]
```

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

```
▶ fullname = {'first_name' : 'David', 'last_name' : 'Warner'}  
print(fullname['first_name'])  
print(fullname['last_name'])
```

```
↳ David  
Warner
```

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

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```
▶ fullname = {'first_name' : 'David', 'last_name' : 'Warner'}  
print( "Welcome " +fullname['first_name'] + " " +fullname['last_name'] + "!!")
```

```
↳ Welcome David Warner!
```

```
[ ]
```

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

```
▶ person1 = {'height' : '5 feet 6 inch',  
            'weight' : '150 pounds'}  
  
for key,value in person1.items():  
    print("The " + key+ " of person1 is: " +value)
```

```
↳ The height of person1 is: 5 feet 6 inch  
   The weight of person1 is: 150 pounds
```

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.

```
▶ nested = { 1: {'Name': 'Jonathan Dermer', 'Position': 'CEO'},  
            2: {'Name': 'Henry Wang', 'Position': 'Data Scientist'},  
            3: {'Name': 'Kylie David', 'Position': 'Intern'}}  
  
for id, info in nested.items():  
    print("\nEmployee Id: " +str(id))  
    for key in info:  
        print(key + ': ' +str(info[key]))
```

```
↳ Employee Id: 1  
   Name: Jonathan Dermer  
   Position: CEO  
  
   Employee Id: 2  
   Name: Henry Wang  
   Position: Data Scientist  
  
   Employee Id: 3  
   Name: Kylie David  
   Position: Intern
```