Alberta "Albi" Kovatcheva

Setup



Requirements

This hands-on is broken into three parts. Please complete each part within your main.py file.

Part 1

- 1. Create two dictionaries to represent information about two pets. Each dictionary should contain the following information (different for each pet):
 - Pet's Name (This should be the name of your dictionary)
 - Type of Pet
 - Color
 - Nickname
 - Owner's Name
- 2. Iterate over each dictionary, printing each key-value pair on one line. The output should be similar to the below:

Type: Cat

Color: White and Orange

Nickname: Birchy Owner: Kurt Type: Cat

Color: Tortoise Shell

Nickname: Palnut Owner: Olivia

Python Commands:

```
Leonard = {
  "Type": "Cat",
  "Color": "Black & White",
  "Nickname": "Lenny",
```

```
"Owner": "Ewa & Jan"
print(Leonard)
Misha = {
  "Type": "Cat",
  "Color": "Black & Brown",
  "Nickname": "Mishka",
  "Owner": "Basia & Everett"
print(Misha)
for key, value in Leonard.items():
  print(key,":",value)
for key, value in Misha.items():
  print(key,":", value)
Results:
PS C:\Users\albi> & C:/Users/albi/anaconda3/python.exe c:/Users/albi/OneDrive/Desktop/python course/les
son_four_handson/main.py
{'Type': 'Cat', 'Color': 'Black & White', 'Nickname': 'Lenny', 'Owner': 'Ewa & Jan'}
{'Type': 'Cat', 'Color': 'Black & Brown', 'Nickname': 'Mishka', 'Owner': 'Basia & Everett'}
Type : Cat
Color : Black & White
Nickname : Lenny
Owner : Ewa & Jan
Type : Cat
Color : Black & Brown
Nickname : Mishka
Owner: Basia & Everett
```

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Part 2

- 1. Add three new dictionaries to your program.
 - Each dictionary should represent a city around the world.
- 2. Add the below dictionaries to your main.py file:

```
england = {'Capital': 'London'}
france = {'Capital': 'Paris'}
belgium = {'Capital': 'Brussels'}
```

- 3. Given the above dictionaries, add the following information to each dictionary:
 - Population
 - o The population of England is 53.01 million
 - o The population of France is 66.9 million
 - o The population of Belgium is 11.35 million
 - Interesting Fact
 - Top Language Spoken by Locals
- 4. Once you have added the necessary information into the dictionaries, loop through each one and print out all key-value pairs.

```
Python commands:
bulgaria = {"Capital": "Sofia"}
spain = {"Capital": "Madrid"}
denmark = {"Capital": "Copenhagen"}
england = {"Capital": "London"}
france = {"Capital": "Paris"}
belgium = {"Capital": "Brussels"}

bulgaria["population in millions"] = 7
spain["population in millions"] = 46.94
denmark["population in millions"] = 5.81
england["population in millions"] = 66.9
belgium["population in millions"] = 11.35
```

```
bulgaria["interesting fact"] = "Bulgarian roses are used to make French perfumes." spain["interesting fact"] = "Spanish people discovered oranges and chocolate." denmark["interesting fact"] = "Denmark is considered the happiest country in the world." england["interesting fact"] = "Sparkling wine was invented in England." france["interesting fact"] = "French people invented the hot air balloon." belgium["interesting fact"] = "Belgians invented french fries and eat them with mayo."
```

```
bulgaria["top language"] = "Bulgarian"
```

```
spain["top language"] = "Spanish"
denmark["top language"] = "Danish"
england["top language"] = "English"
france["top language"] = "French"
belgium["top language"] = "Dutch (and others)"
print(bulgaria)
print(spain)
print(denmark)
print(england)
print(france)
print(belgium)
for key, value in bulgaria.items():
  print(key,":", value)
for key, value in spain.items():
  print(key,":", value)
for key, value in denmark.items():
  print(key,":", value)
for key, value in england.items():
  print(key,":", value)
for key, value in france.items():
  print(key,":", value)
for key, value in belgium.items():
  print(key,":", value)
Results:
>>> spain = {"Capital": "Madrid"}
>>> denmark = {"Capital": "Copenhagen"}
>>> bulgaria["population in millions"] = 7
>>> spain["population in millions"] = 46.94
>>> denmark["population in millions"] = 5.81
>>> england["population in millions"] = 53.01
>>> spain["interesting fact"] = "Spanish people discovered oranges and chocolate."
>>> denmark["interesting fact"] = "Denmark is considered the happiest country in the world."
>>> england["interesting fact"] = "Sparkling wine was invented in England."
>>> france["interesting fact"] = "French people invented the hot air balloon."
>>> denmark["top language"] = "Danish"
>>> england["top language"] = "English"
>>> france["top language"] = "French"
```

```
>>> belgium["top language"] = "Dutch (and others)"
>>> print(spain)
{'Capital': 'Madrid', 'population in millions': 46.94, 'interesting fact': 'Spanish people discovered oranges and
chocolate.', 'top language': 'Spanish'}
>>> print(denmark)
{'Capital': 'London', 'population in millions': 53.01, 'interesting fact': 'Sparkling wine was invented in England.', 'top
language': 'English'}
>>> print(france)
{'Capital': 'Paris', 'population in millions': 66.9, 'interesting fact': 'French people invented the hofries and eat them
with mayo.', 'top language': 'Dutch (and others)'}
>>> for key, value in bulgaria.items():
     print(key,":", value)
population in millions: 7
interesting fact: Bulgarian roses are used to make French perfumes.
top language: Bulgarian
>>> for key, value in spain.items():
    print(key,":", value)
Capital: Madrid
population in millions: 46.94
interesting fact: Spanish people discovered oranges and chocolate.
top language: Spanish
>>> for key, value in denmark.items():
     print(key,":", value)
Capital: Copenhagen
population in millions: 5.81
interesting fact: Denmark is considered the happiest country in the world.
top language: Danish
>>> for key, value in england.items():
     print(key,":", value)
Capital: London
population in millions: 53.01
interesting fact: Sparkling wine was invented in England.
top language: English
>>> for key, value in france.items():
    print(key,":", value)
```

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Capital: Paris

population in millions: 66.9

interesting fact: French people invented the hot air balloon.

top language: French

>>> for key, value in belgium.items():

... print(key,":", value)

...

Capital: Brussels

population in millions: 11.35

interesting fact: Belgians invented french fries and eat them with mayo.

top language: Dutch (and others)

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Part 3

- 1. Add a dictionary to your program that replicates a user's pizza order. Name this dictionary pizza_order and it should contain the following:
 - Customer's Name
 - What size pizza they have ordered
 - What type of crust
 - What toppings they would like.
 - Toppings should include at least three separate toppings
- 2. Next, print out the customer's order:
 - Thank them for their order using their name
 - Print out what they're ordering
 - Print out the list of toppings (minimum 3)
- 3. Your output should looks similar to the following:

Thank you for your order, Andrew

You have ordered a small, thin-crust pizza with the following toppings: extra cheese, sausage, bacon

• Use the print() and get() functions

```
Python commands:

pizza_order = {

"Customer's name": "Albi",

"Pizza size": "12 inch",

"Crust type": "thin-crust",

"Toppings": "peperoni, mushroom, onion, olives, green pepper, tomato, garlic, and basil"
}

print(pizza_order)

print(

"Thank you for your order, " +

pizza_order.get("Customer's name") +

"\nYou have ordered a " + pizza_order.get("Pizza size") +

", " + pizza_order.get("Crust type") +

" pizza with the following toppings:" +

"\npeperoni, mushroom, onion, olives, green pepper, tomato, garlic, and basil"
)
```

Results:

```
>>> print(
... "Thank you for your order, " +
... pizza_order.get("Customer's name") +
... "\nYou have ordered a " + pizza_order.get("Pizza size") +
... ", " + pizza_order.get("Crust type") +
... "pizza with the following toppings:" +
... "\npeperoni, mushroom, onion, olives, green pepper, tomato, garlic, and basil"
... )
Thank you for your order, Albi
You have ordered a 12 inch, thin-crust pizza with the following toppings:
peperoni, mushroom, onion, olives, green pepper, tomato, garlic, and basil
```