

Python_Basic_assignment_5

August 7, 2023

1. What does an empty dictionary's code look like?

```
[ ]: my_dict = {}
```

2. What is the value of a dictionary value with the key 'foo' and the value 42?

```
[3]: Dict = {'foo':42}
value = Dict['foo']
print(value)
```

42

What is the most significant distinction between a dictionary and a list? Lists are used to store data in a specific order and perform different array-like operations on the elements. Dictionaries, on the other hand, are useful for storing large amounts of data with easy access and mapping the elements in a hash table.

4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?

```
[ ]: spam = {'bar': 100}
value = spam['foo']
# it will gives a KeyError
```

If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.keys()? 'cat' in spam checks if the key 'cat' exists in the dictionary spam.

'cat' in spam.keys() checks if the key 'cat' exists among the keys of the dictionary spam.

6. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.values()?

'cat' in spam checks if the value 'cat' exists in the values of the dictionary spam.

'cat' in spam.values() expression checks if the value 'cat' exists among the values of the dictionary spam.

7. What is a shortcut for the following code? if 'color' not in spam: spam['color'] = 'black'

```
[10]: spam.setdefault('color', 'black')
```

```
[10]: 'black'
```

8. How do you "pretty print" dictionary values using which module and function?

```
[11]: import pprint

my_dict = {'name': 'John', 'age': 30, 'city': 'New York'}

pprint.pprint(my_dict)
```

```
{'age': 30, 'city': 'New York', 'name': 'John'}
```

```
[ ]:
```