

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

Answer -

An empty dictionary's code look like two curly brackets: {}

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

Answer -

The value of a dictionary value with the key 'foo' and the value 42 is {'foo': 42}

3. What is the most significant distinction between a dictionary and a list?

Answer :-

the primary distinction is that a list is an ordered collection accessed by integer indexes, while a dictionary is an unordered collection accessed by unique keys, allowing you to store and retrieve data based on specific identifiers.

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

Answer :-

```
spam = {"bar":100}
```

```
spam["foo"]
```

output:-

KeyError: 'foo'

5. If a dictionary is stored in spam, what is the difference between the expressions "cat" in spam and "cat" in spam.keys()?

Answer:-

both expressions are used to check if a specific key exists in the dictionary. The first expression directly checks in the dictionary, while the second expression retrieves all the keys first and then checks if the key is among them. Both expressions return the same result

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

Answer-

'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

7. What is a shortcut for the following code?

```
if 'color' not in spam:  
    spam['color'] = 'black'
```

Answer.

```
spam.setdefault('color', 'black')
```

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

Answer:-

To "pretty print" dictionary values in Python, you can use the json module's json.dumps() function with the indent parameter. The json.dumps() function is typically used to serialize Python objects into a JSON formatted string. However, it can also be used to pretty print dictionaries by setting the indent parameter to a non-zero value.