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

Ans:-

```
emptyDict = {}
# or
emptyDict = dict()
```

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

```
tmp = {'foo': 42}
```

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

Ans:- The most significant distinction between a dictionary and a list is that items in dictionaries are unordered and accessed via keys, while items in lists are ordered and accessed via indices. Also, dictionaries can't contain duplicate keys while lists can contain duplicate values

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

Ans:- If you try to access spam['foo'] when spam is {'bar': 100}, you will get a KeyError because the dictionary spam does not contain the key 'foo'

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

Ans:- There is no difference between the expressions 'cat' in spam and 'cat' in spam.keys(). Both expressions check whether there is a 'cat' key in 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()?

Ans:- The expression 'cat' in spam checks whether there is a 'cat' key in the dictionary spam, 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'

Ans:- spam.setdefault('color', 'black')
This line of code will set the value of key 'color' to 'black' if 'color' is not already a key in the dictionary spam

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

Ans:- You can "pretty print" dictionary values using the pprint function from the pprint module or the dumps function from the json module in Python. Here's an example using pprint: