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

```
In [1]:
         1 dict = {}
         2 type(dict)
```

Out[1]: dict

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

```
In [2]: 1 {'foo' : 42}
Out[2]: {'foo': 42}
```

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

```
1 Most significant difference :-
 List - items in list are Ordered
3 Dictionary - items in dictionary are Unordered.
```

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

```
In [3]: 1 | spam = {'bar':100}
        spam['foo']
       3 #This will give us key error
      ______
      KevError
                                     Traceback (most recent call last)
      ~\AppData\Local\Temp/ipykernel_15876/2620492333.py in <module:
          1 spam = {'bar':100}
```

KeyError: 'foo'

----> 2 spam['foo']

3 #This will give us key error

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

```
1 spam ={'cat':100}
In [4]:
         2 'cat' in spam
```

Out[4]: True

```
In [5]: 1 'cat' in spam.keys()
         2 #There is no differnce, both check if 'cat' is key of the dictionary and if its a key, returns True.
```

Out[5]: True

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

```
1 spam ={'cat':100}
2 'cat' in spam
In [6]:
```

Out[6]: True

```
In [7]:
        1 spam ={'cat':100}
         2 'cat' in spam.values()
         4 #'cat' in spam checks whether there is a 'cat' key in the dictionary
         5 #'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.
```

Out[7]: False

7. What is a shortcut for the following code?

```
In [8]:
         1 spam = {'cat' :100}
            spam.setdefault('color','black')
         3 spam
```

Out[8]: {'cat': 100, 'color': 'black'}

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