```
In [ ]: Q1.What does an empty dictionary's code look like?
```

```
In [3]: dict={}
```

```
In [ ]: Q2.What is the value of a dictionary value with the key 'foo' and the value
```

```
In [4]: d1={"foo":42}
```

```
In [5]: d1["foo"]
```

```
Out[5]: 42
```

```
In [ ]: Q3.What is the most significant distinction between a dictionary and a list
```

```
In [ ]: Most significant difference:
        List - items in list are Ordered
        Dictionary : iten in dictionary are unordered and minor changes like-
        1.dictionary is key value pair and list as such not,
        2.dicttinary writes in curly bracket whereas list in square bracket
```

```
In [ ]: Q4.What happens if you try to access spam['foo'] if spam is {'bar': 100}?
```

```
In [6]: spam={'bar': 100}
```

```
In [7]: spam['foo']
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
Cell In [7], line 1
----> 1 spam['foo']

KeyError: 'foo'
```

```
In [ ]: it gives us key error
```

```
In [ ]: Q5.If a dictionary is stored in spam, what is the difference between the exp
        'cat' in spam and 'cat' in spam.keys()?
```

```
In [38]: spam={'cat':"a"}
```

```
In [11]: spam.keys()
```

```
Out[11]: dict_keys(['cat'])
```

```
In [12]: 'cat' in spam
```

```
Out[12]: True
```

```
In [13]: 'cat' in spam.keys()
```

```
Out[13]: True
```

```
In [ ]: No difference both gives True
```

In [ ]:
```
Q6.If a dictionary is stored in spam, what is the difference between the exp
'cat' in spam and 'cat' in spam.values()?
```

In [14]:
```
'cat' in spam.values()
```

Out[14]: False

In [15]:
```
'cat' in spam
```

Out[15]: True

In [ ]:
```
'cat' in spam checks whether there is a 'cat' key in the dictionary
'cat' in spam.values() checks whether there is a value 'cat' for one of the
```

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

In [20]:
```
if 'color' not in spam:
    spam['color'] = 'black'
```

In [22]:
```
spam
```

Out[22]: {'cat': 'a', 'color': 'black'}

In [40]:
```
spam
```

Out[40]: {'cat': 'a'}

In [49]:
```
spam.setdefault('color1', 'black')
```

Out[49]: 'black'

In [50]:
```
del spam['color1']
```

In [47]:
```
spam
```

Out[47]: {'cat': 'a', 'color': 'black'}

In [ ]:
```
Q8.How do you 'pretty print' dictionary values using which module and funct:
```

In [52]:
```
import pprint
dct = [ {'Name': 'Shiva', 'Age': '23', 'Country': 'India'},
  {'Name': 'Anna', 'Age': '44', 'Country': 'China'},
  {'Name': 'Joe', 'Age': '29', 'Country': 'UK'},
  {'Name': 'Chumlee', 'Age': '35', 'Country': 'USA'}
]
```

In [53]:
```
print(dct)
```

```
[{'Name': 'Shiva', 'Age': '23', 'Country': 'India'}, {'Name': 'Anna', 'Ag
e': '44', 'Country': 'China'}, {'Name': 'Joe', 'Age': '29', 'Country': 'U
K'}, {'Name': 'Chumlee', 'Age': '35', 'Country': 'USA'}]
```

In [54]:
```
pprint.pprint(dct)
```

```
[{'Age': '23', 'Country': 'India', 'Name': 'Shiva'},
 {'Age': '44', 'Country': 'China', 'Name': 'Anna'},
 {'Age': '29', 'Country': 'UK', 'Name': 'Joe'},
 {'Age': '35', 'Country': 'USA', 'Name': 'Chumlee'}]
```

In [ ]:

[{'Age': '23', 'Country': 'India', 'Name': 'Shiva'},
 {'Age': '44', 'Country': 'China', 'Name': 'Anna'},
 {'Age': '29', 'Country': 'UK', 'Name': 'Joe'},
 {'Age': '35', 'Country': 'USA', 'Name': 'Chumlee'}]