In [ ]:
```
Assignment-5
```

1.What does an empty dictionary's code look like?
Ans- An empty pair of curly braces {} is an empty dictionary.

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

Out[1]:
```
dict
```

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

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

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

3. What is the most significant distinction between a dictionary and a list?
Ans- Most significant difference: List - items in list are Ordered Dictionary : iten in dictionary are unordered

In [ ]:
```

```

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

In [3]:
```
spam = {'bar':100}
spam['foo']
#This will give us key error
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
Cell In[3], line 2
      1 spam = {'bar':100}
----> 2 spam['foo']

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()?

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

Out[4]:
```
True
```

In [5]:
```
'cat' in spam.keys()
#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()?

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

Out[6]:
```
True
```

In [7]:
```
spam ={'cat':100}
'cat' in spam.values()

#'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 keys in spam.
```

Out[7]:
```
False
```

7. What is a shortcut for the following code?

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

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

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

In [10]:
```
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 [11]:
```
# printing with pprint()
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 [ ]:
```

```