In [ ]:

```
1. What does an empty dictionary&#39;s code look like?
```

In [1]:

```
d={}
```

In [2]:

```
type(d)
```

Out[2]:

```
dict
```

In [ ]:

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

In [3]:

```
d['foo']=42
```

In [4]:

```
print(d)
```

```
{'foo': 42}
```

In [5]:

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

Out[5]:

```
{'foo': 42}
```

In [ ]:

```
3. What is the most significant distinction between a dictionary and a list?
Dictonary reprent key value pairs and duplicate keys are not allowed but in list duplicate
```

In [ ]:

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

In [6]:

```
spam['foo']
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Input In [6], in <cell line: 1>()
----> 1 spam['foo']

NameError: name 'spam' is not defined
```

In [7]:

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

In [8]:

```
spam
```

Out[8]:

```
{'bar': 100}
```

In [9]:

```
spam = {'bar': 100}
spam['foo']  #KeyError
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
Input In [9], in <cell line: 2>()
      1 spam = {'bar': 100}
----> 2 spam['foo']

KeyError: 'foo'
```

In [ ]:

```
5. If a dictionary is stored in spam, what is the difference between the expressions 'cat'
Ans: function checks wheather 'cat' is present in dictionary as a key
```

In [ ]:

```
6. If a dictionary is stored in spam, what is the difference between the expressions 'cat'
Ans  this function checks wheather 'cat' is present in dictonary as a value
```

In [ ]:

```
7. What is a shortcut for the following code?
if 'color' not in spam:

spam['color'] = 'black'
```

In [10]:

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

Out[10]:

```
'black'
```

In [ ]:

```
8. How do you "pretty print" dictionary values using which module and function?
Ans: module = pprint

function = pprint.pprint()
```