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

Answer:

Input [ ]: dict = {}

type(dict)

Output[ ]: dictA

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

Input[ ]: {'foo':42}

Output[ ]: {'foo': 42}

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

The most significant difference:  
List - items in list are Ordered  
Dictionary: items in dictionary are unordered

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

spam = {'bar':100}

spam['foo']

#This will give us key error

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

Answer:

In [ ]: spam ={'cat':100}

'cat' in spam

Out[]: True

In [ ]: '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[ ]:True

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

Answer:

In [ ]: spam ={'cat':100}

'cat' in spam

Out[ ]: True

In [ ]: 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[ ]: False

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Answer:

spam ={'cat':100}

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

spam

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

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

Answer:

import print

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 [ ]:

# 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 [ ]:#Printing with print()

print(dct\_arr)

[{'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 [ ]: