**ASSIGNMENT 5**

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

**Answer 1.**  Empty Dictionary { }.

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

**Answer 2.**  dict = { foo : 42 }.

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

**Answer 3.**

**List :**

List is a collection of index values pairs as that of array. List is created by placing elements in [ ] separated by commas “, “

**Dictionary:**

Dictionary is a hashed structure of key and value pairs. Dictionary is created by placing elements in { } as “key”:”value”, each key value pair is separated by commas “,

**Similarity:**

Both List and Dictionary are mutable datatypes.

**Dissimilarity:**

List is a sequential data type i.e. they are indexed.Dictionary is a mapping datatype. It consists of key: value pair.

Eg: L =[1 2 3 4 5] is a list

D= {1:”Ajay” 2:”Prashant 4:”Himani”} is a dictionary where 1, 2 ,4 are keys and “Ajay”, “Prashant”, ”Himani” are their corresponding values.

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

**Answer 4.**

There is no such key ‘foo’ in dictionary ‘spam’.

Interpreter checks the ‘foo’ is not available. Hence interpreter shows KeyError

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KeyError Traceback (most recent call last)

[<ipython-input-13-9b5a94d1de8d>](https://localhost:8080/#) in <module>

----> 1 spam['foo']

KeyError: 'foo'

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

**Answer 5.**

‘cat’ may be a key of dictionary.

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

**Answer 6.**

‘cat’ may be a value of dictionary.

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**Question 7. What is a shortcut for the following code?**

**if 'color' not in spam:**

**spam['color'] = 'black'**

**Answer 7 .** spam.setdefault( ‘color’, ‘black’ )

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**Question 8. How do you "pretty print" dictionary values using which module and function?**

**Answer 8.**

pprint is a module . It supports pretty printing dictionaries. pprint( ) is a function to pretty print the given string or object.

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