**Rishabh Kant Jha’s**

**Assignment - 5**

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

{}

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

{‘foo’:42}

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

Dictionary has a { “Key” : Value } pair :

Dict\_1 = {“Alpha”:”Beta”,”Theta”:32,”Gamma”:”Delta”, “Sigma”:{“Omega”:”Cute”,”Mega”:1000}

List doesn’t :

List\_1 = {“Alpha”,32,’Beta’,-90}

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

Error as the value doesn’t exist in the List and

KeyError as Key ‘foo’ doesn’t exist.

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

Spam={‘cat’:32}

# ‘cat’ in Spam is a key

For I in spam.keys():

Print(I)

# The above code will print all the keys from the SPAM dictionary.

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

Spam={‘cat’:32,'bar':100,"So":"Beta"}

# ‘cat’ in Spam is a key

# 32 is a value

For I in spam.values():

Print(I)

# The above code will print all the values from the SPAM dictionary.

#32

#100

#Beta

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Spam[‘color’]=’black’

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

Pprint module

[pprint](https://docs.python.org/3/library/pprint.html) module provides, Python data types to be more readable and supports the pretty-printing dictionary.

pprint() is used to pretty-print the given string or object.

Declare an array of dictionaries.

Now pretty print it using the function pprint.pprint().

It breaks each dictionary element in the array right after the commas while also sorting the dictionary’s

values by key.

import **pprint**

Dict\_1 = [ {'Alpha':'Beta'} , {'Gamma':32,"Se":"4332"} , {'THETA':'Selfie'}, {'Gamma':32,"Se":"4332"} ,

          {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"}

          , {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"}

          , {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"} , {'Gamma':32,"Se":"4332"} ]

**print**(Dict\_1)

**pprint**.**pprint**(Dict\_1)

#Output:

# Below is the output from using **pprint.pprint(Dict\_1)**

[{'Alpha': 'Beta'}, {'Gamma': 32, 'Se': '4332'}, {'THETA': 'Selfie'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}, {'Gamma': 32, 'Se': '4332'}]

# Below is the output from using **pprint.pprint(Dict\_1)**

[{'Alpha': 'Beta'},

{'Gamma': 32, 'Se': '4332'},

{'THETA': 'Selfie'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'},

{'Gamma': 32, 'Se': '4332'}]