DICTIONARY

1. What is a dictionary in Python?

A dictionary is a set of key-value pairs referenced by a single name

2. How to create a dictionary?

The syntax to create a dictionary is as follows: dictionaryName = {"keyOne": "valueOne", "keyTwo", "valueTwo"}

Example: Consider the following dictionary that stores the colour of fruits with key as the fruit name as value as its color.

```
colorOfFruits = {"apple": "red", "mango":
"yellow", "orange": "orange"}
```

3. How to retrieve values from a dictionary?

Values are retrieved from a dictionary by specifying the key associated to that value.

Syntax: dictionaryName["key"]

Example: To retrieve the color of mango, type the following line of code

```
colorOfFruits["mango"]
```

This will return 'yellow'

4. How to update a value associated to a dictionary key?

A value can be reassigned by making use of the key corresponding to that value.

Syntax: dictionaryName["key"] = "New Value"

Example: colorOfFruits["apple"] = "green"

Our dictionary now becomes {'orange': 'orange',

'mango': 'yellow', 'apple': 'green'}

5. What are some of the operations of a dictionary ?1. List all keys

keys() is used to list all the keys in a dictionary.

Syntax: dictionaryName.keys()

Example: colorOfFruits.keys() returns
['orange', 'mango', 'apple']

2. List all values

values() is used to list all the values in a dictionary

Syntax: dictionaryName.values()

Example: colorOfFruits.values() returns
['orange', 'yellow', 'green']

3. Delete a key-value pair

del keyword is used to delete a key-value pair from a dictionary

Syntax: del dictionaryName["key"]

Example: del colorOfFruits["apple"]. Our
dictionary now returns { 'orange': 'orange', 'mango':
'yellow'}

4. Copy a dictionary into another

copy() is used to copy the contents of one dictionary to another

Syntax: dictionaryTwo = dictionaryOne.copy()

Example: copyOfColorOfFruits =
colorOfFruits.copy()

copyOfColorOfFruits will now return { 'orange':
'orange', 'mango': 'yellow'}

5. Clear a dictionary

clear() is used to clear the contents of a dictionary and make it empty

Example: colorOfFruits.clear()

colorOfFruits now returns { }, which is an empty
dictionary