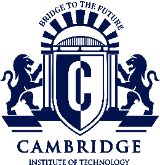
**CAMBRIDGE INSTITUTE OF TECHNOLOGY**

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**Application Development Using Python (18CS55)**

**MODULE-II**

1. Define the following with examples:

* List
* Indexes
* Multiple Indexes
* Negative Indexes
* Sublists with slices
* Len()
* Changing values in list
* Removing values in list

2. Discuss different ways of traversing a list. Explain with an example for each

3. Explain list operations with suitable examples.

4. Explain the various list methods

5. Lists are Mutable. Justify the statement with examples.

6.Define Tuple. How to convert list() and tuple() explain with example.

7. With example, explain how list can be passed as arguments to a function.

8. What are Dictionaries? Discuss the following Dictionary operations and functions with examples.

1. Items,Keys,Values

2. Traversing a Dictionary using looping

9. With example program illustrate how the Dictionary can be used as counters.

10.Define String? Explain how the strings are accessed and traversed. (string literals, methods , justify, strip)to be explained.

11. Briefly explain the usage of pyperclip module.

**Additional Program**

**Consider the list scores = [5, 4, 7, 3, 6, 2, 1] and write the python code to perform the following operations:**

i) Insert an element 9 at the beginning of the list.

ii) Insert an element 8 at the index position 3 of the list.

iii) Insert an element 7 at the end of the list.

iv) Delete all the elements of the list.

v) Delete an element at the index position 3.

vi) Delete an element at the beginning of the list.

**For the following three questions, let‟s say spam contains the list ['a','b', 'c', 'd',[3,4]].**

• What does spam[int('3' \* 2) / 11] evaluate to?

What does spam[-2] evaluate to?

• What does spam[4][1] evaluate to?

**For the following three questions, let‟s say bacon contains the list [3.14, 'cat', 11, 'cat', True].**

• What does bacon.index('cat') evaluate to?

• What does bacon.append(99) make the list value in bacon look like?

• What does bacon.remove('cat') make the list value in bacon look like?

**Write a Python program to input two integers a and b , and swap those numbers . Print both input and swapped numbers**