**Assignment 4**

1. What exactly is []?

Answer : its empty list

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1. In a list of values stored in a variable called spam, how would you assign the value “hello” as the third value? (Assume [2, 4, 6, 8, 10] are in spam.)

Answer: we ll write spam[2]=”hellow

Let’s pretend the spam includes the list [“a”, “b” , “C”,”D”] for the next three queries.

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1. What is the value of spam[int(int(“3”\* 2) / 11)]?

Answer: here 3 is string , when it multiply by 2 it will become “33” and will become int after that it will get divided by 3 and last answer will be 3

And value “d” will come because at 3 index d present

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1. What is the value of spam[-1]?

Answer: “D”

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1. What is the value of spam[:2]?

Answer: it will print a 1st two element “a” , “b”

Let’s pretend bacon has the list [3.14, “cat”,” 11”,”cat”,” True”] for the next three questions.

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6. What is the value of bacon.index(“cat”)?

Answer : 1

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7.How does bacon.append(99) change the look of the list value in bacon?

Answer : 99 will get append into it like [3.14 , “cat” , 11 , “cat” , "True”]

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8. How does bacon.remove('cat') change the look of the list in bacon?

Answer: after print a bacon.remove(“cat”) it ll look like

[3.14 , 11 , “cat” , "True”]

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9. What are the list concatenation and list replication operators?

Answer : concatenation means add , and we can add two list by + operator

And for replication we can use \*

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10. What is difference between the list methods append() and insert()?

Answer : append method directly append the value like eg

A=[]

A.append(“name”)

While insert method insert the value using index number

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11. What are the two methods for removing items from a list?

Answer: we can do this by remove method and and del method

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12. Describe how list values and string values are identical.

Answer : we can use len funaction with list also and string also and and we can do indexing for both and use a loop for both

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13. What's the difference between tuples and lists?

Answer : list are mutable while tuple are not and in list we can add value and remove but not in tuple , list is wrriten in [] this bracket and while tuple () in this way

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14. How do you type a tuple value that only contains the integer 42?

Answer : (42,)

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15. How do you get a list value's tuple form? How do you get a tuple value's list form?

Answer : if we want list value in the form of tuple we can use tuple() method

While for tuple value in a list format we can use List function

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16. Variables that "contain" list values are not necessarily lists themselves. Instead, what do they contain?

Answer:

17. How do you distinguish between copy.copy() and copy.deepcopy()?

Answer: copy.copy() will do a shallow copy of list and will do copy.deepcopy()

Deep copy of list