**FYBCA**

**SEMESTER – I**

**BCA1111C03 : Introduction to Programming using Python**

**Date : 9/11/2022**

1. Create a list of your choice.
2. Iterate over the list and display the elements of the list.
3. Create a new list and add it to the existing list.
4. myLst = [1, "A", 'MSU', 123, 909, 78.88, 77, 6544, 78.50, 7+9j, True, False, 900000, "XYZ", 90.99999999999]

Display list items using following indexing /slicing operation.

myLst

myLst[6]

myLst[-2]

myLst[-10]

myLst[0:6]

myLst[1:6]

myLst[6:10]

myLst[:]

myLst[::]

myLst[::-1]

myLst[:10]

myLst[::2]

myLst[0::1]

myLst[2:13:4]

1. Delete an item from the list.
2. Delete elements available at odd indices from the list.
3. Delete elements available at even indices from the list.
4. Delete the definition of the list.
5. Demonstrate that a list is mutable object.
6. Update the value of list at index 5 to 200000.
7. Create a nested list consisting of various elements along with one or two lists.
8. Check whether ‘MSU’ is in a list or not.
9. Insert an element ‘MSU’ at 4th Position.
10. Count occurrences of “MSU” in a list.
11. Convert a list into tuple.
12. Create a list and perform following operation on it

list1 = ["abc","2",34,89,"ZZ",4.534]

list2 = [1,89,"Krish", "Python", True, 2+8j]

list3 = ["abc","2",34,89,"ZZ",4.534, [2,3,4], 809]

print(list1,list2,list3, sep =",")

list4 = list1+list2

print(list4)

1. Cloning list.

list1 = ["abc","2",34,89,"ZZ",4.534]

##list2 = list1

##print(list1)

##print(list2)

1. To insert a list in another list using slice operation

##

##myL =  [1,2,3]

##myL2 = [1,2,3]

##myL[1] =myL2

##print(myL)

1. Write a program to sum the series 1/2+2/3+3/4+.......+n/n+1.
2. Write a program to print Leap Year between two user input years.
3. Write a program to print and count number of Leap years between year 0001-2019.
4. Write a program to print average of 10 values entered by user.
5. Write a program find the reverse of a string using a loop.
6. Write a program to check whether an alphabet is vowel or not. Loop infinitely in case of user inputs a consonant.