**ASSIGNMENT 3**

**1] Write a Python program to sum all the items in a list.**

mylist = [1,2,3,4,5,6]

sum=0

for item in mylist : sum = sum + item

print(sum)

**2] Write a Python program to check a list is empty or not.**

mylist = []

if(len(mylist)==0):

print("List is empty")

else:

print("List is not empty")

**3] Write a Python program to print a specified list after removing the 0th, 4th and 5th elements.**

mylist = [1,2,3,'Python',57,'Hello']

mylist.pop(0)

mylist.pop(4-1)

mylist.pop(5-2)

print(mylist)

**4] Write a Python program to shuffle and print a specified list. (Hint: from random import shuffle).**

from random import shuffle

mylist = [2,3,4,5,1,6,7]

shuffle(mylist)

print(mylist)

**5] Write a Python program to convert a string to a list**.

mystr = "Darshan"

mylist = list(mystr)

**6] Write a Python program to extend a list without append.**

x = [10,20,30]

y = [40,50,60]

x[len(x):] = y

print(x)

**7] Write a Python program to insert a given string at the beginning of all items in a list**

**Sample list : [1,2,3,4], string : emp Expected output : ['emp1', 'emp2', 'emp3', 'emp4']**

mylist = [1,2,3,4]

mystr = "Darshan"

for i in range(len(mylist)):

mylist[i] = mystr + str(mylist[i])

print(mylist)

**8] Write a Python program to replace the last element in a list with another list.**

**(Sample data : [1, 3, 5, 7, 9, 10], [2, 4, 6, 8] Expected Output: [1, 3, 5, 7, 9, 2, 4, 6, 8])**

list1 = [1,2,3,4,5]

list2 = [7,8,9,10]

list1.pop()

list1[len(list1):] = list2

print(list1)

**9] Write a Python program to get the frequency of the elements in a list.**

mylist = [2,3,3,4,6,7,8,8,5,5]

newlist = []

for item in mylist:

if(item not in newlist):

newlist.append(item)

for item in newlist:

print("Frequency of ",item," : ",mylist.count(item))

**10] Write a Python program to clone or copy a list.**

mylist = [2,3,4,2,1,5,5]

listcopy = mylist.copy()

print(listcopy)