1(a)

tup = [(1,2,3),(4, 5),(6,),(7,)]

sum\_list = list(map(sum,tup))

print("Sum of each tuple:",sum\_list)

Output:

Sum of each tuple: [6, 9, 6, 7]

1(b)

dct={'1':['a','b'],'2':['1','2']}

for i in dct['1']:

for j in dct['2']:

print(i + j)

Output:

a1

a2

b1

b2

1(c)

lst = [1, 2, 3]

n = len(lst)

for i in range(n):

print([lst[i]])

for j in range(i+1, n):

print([lst[i], lst[j]])

for k in range(j+1, n):

print([lst[i], lst[j], lst[k]])

Output:

[1]

[1, 2]

[1, 2, 3]

[1, 3]

[2]

[2, 3]

[3]