3. Write a Python program to sum all the items in a list.

def sum\_list(items):

sum\_numbers = 0

for x in items:

sum\_numbers += x

return sum\_numbers

print(sum\_list([1,2,-8]))

4. Write a Python program to create a list of empty dictionaries

n = 5

l = [{} for \_ in range(n)]

print(l)

5. Write a Python program to access dictionary keys element by index.

num = {'physics': 80, 'math': 90, 'chemistry': 86}

print(list(num)[0])

6. Write a Python program to iterate over dictionaries using for loops

d = {'Red': 1, 'Green': 2, 'Blue': 3}

for color\_key, value in d.items():

print(color\_key, 'corresponds to ', d[color\_key])

7. Write a Python program to sum all the items in a dictionary

my\_dict = {'data1':100,'data2':-54,'data3':247}

print(sum(my\_dict.values()))

8. Write a Python script to concatenate following dictionaries to create a new one. Sample Dictionary : a. dic1={1:10, 2:20} b. dic2={3:30, 4:40} c. dic3={5:50,6:60}

dic1={1:10, 2:20}

dic2={3:30, 4:40}

dic3={5:50,6:60}

dic4 = {}

for d in (dic1, dic2, dic3): dic4.update(d)

print(dic4)

9.Expected result:{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

dic1={1:10, 2:20}

dic2={3:30, 4:40}

dic3={5:50,6:60}

dic4 = {}

for d in (dic1, dic2, dic3): dic4.update(d)

print(dic4)

10.Write a Python program to create a tuple

t = ("apple", "banana", "cherry")

print(t)

11.Write a Python program to create a tuple with different data types

t1=('shru','143','krish')

print(t1)

12.Write a Python program to convert a tuple to a string

tup = ('e', 'x', 'e', 'r', 'c', 'i', 's', 'e', 's')

str = ''.join(tup)

print(str)

13.Write a Python program to slice a tuple

t1 = (2, 4, 3, 5, 4, 6, 7, 8, 6, 1)

slice = t1[3:5]

print(slice)

14.Write a Python program to find the length of a tuple.

t1 = (2, 4, 3, 5, 4, 6, 7, 8, 6, 1)

len(t1)

15.Write a Python program to convert a tuple to a dictionary

tuplex = ((2, "w"),(3, "r"))

print(dict((y, x) for x, y in tuplex))

16.Write a Python program to reverse a tuple

x = (5, 10, 15, 20)

y = reversed(x)

print(tuple(y))

17.Write a Python program to convert a list of tuples into a dictionary

l = [("x", 1), ("x", 2), ("x", 3), ("y", 1), ("y", 2), ("z", 1)]

d = {}

for a, b in l:

d.setdefault(a, []).append(b)

print (d)

18.Write a Python program to convert a list to a tuple.

listx = [5, 10, 7, 4, 15, 3]

print(listx)

tuplex = tuple(listx)

print(tuplex)