1. Write a python program to sum all the items in the list.

def sum\_list(items):

sum\_numbers = 0

for x in items:

sum\_numbers += x

return sum\_numbers

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

**Output:**

-5

1. Write a python program to multiples all the items in the list.

def multiply\_list(items):

tot = 1

for x in items:

tot \*= x

return tot

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

**Output:**

-16

1. Write a python program to get the largest and smallest number from the list.

lst = []  
 num = int(input('How many numbers: '))for n in range(num):  
 numbers = int(input('Enter number '))  
 lst.append(numbers)print("Maximum element in the list is :", max(lst), "\nMinimum element in the list is :", min(lst))

**Output :**

How many numbers:6

Enter number:25

Enter number:96

Enter number:32

Enter number:54

Enter number:74

Enter number:29

Maximum element in the list:96

Minimum element in the list:25

1. Write a python program to remove duplicates from the list.

a = [10,20,30,20,10,50,60,40,80,50,40]

dup\_items = set()

uniq\_items = []

for x in a:

if x not in dup\_items:

uniq\_items.append(x)

dup\_items.add(x)

print(dup\_items)

**Output:**

{40, 10, 80, 50, 20, 60, 30}

1. Write a python program to check a list is empty or not.

l = []

if not l:

print("List is empty")

**Output:**

List is empty

1. Write a python program to clone or copy a list.

original\_list = [10, 22, 44, 23, 4]

new\_list = list(original\_list)

print(original\_list)

print(new\_list)

**Output:**

[10, 22, 44, 23, 4]

[10, 22, 44, 23, 4]

1. Write a python program to print a specified list after removing 0th,4th elements.

color = ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']

color = [x for (i,x) in enumerate(color) if i not in (0,4,5)]

print(color)

**Output:**

['Green', 'White', 'Black']

1. Write a python program to print the numbers of a specified list after removing numbers from it.

num = [7,8, 120, 25, 44, 20, 27]

num = [x for x in num if x%2!=0]

print(num)

Output:

[7,25,27]

1. Write a python program to shuffle and print a specified list.

from random import shuffle

color = ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']

shuffle(color)

print(color)

**Output:**

['Yellow', 'Pink', 'Green', 'Red', 'Black', 'White']

1. Write a python program to get the difference between the two lists.

list1 = [1, 3, 5, 7, 9]

list2=[1, 2, 4, 6, 7, 8]

diff\_list1\_list2 = list(set(list1) - set(list2))

diff\_list2\_list1 = list(set(list2) - set(list1))

total\_diff = diff\_list1\_list2 + diff\_list2\_list1

print(total\_diff)

**Output:**

[9, 3, 5, 8, 2, 4, 6]