try :

f1 = open("D:\Personal Data\file1.txt", "r")

f2 = open("D:\Personal Data\file2.docx","w")

s = f1.read()

f2.write(s)

f1.close()

f2.close()

except Exception as e:

print(e)

#Write a Python program to find the single element in a list where every element appears three times except for one.

def single\_nbr(lst):

n\_set = set(lst)

for i in n\_set:

if lst.count(i) == 1:

return i

return None

print(single\_nbr([5, 3, 4, 3, 5, 5, 3,4]))

#Write a Python program to check if a given positive integer is a power of two

def check\_pow\_two(n):

if n<0:

raise Exception("not a positive integer")

for i in range(0,n):

if n == pow(2,i):

return True

elif n < pow(2,i):

return False

print(check\_pow\_two(64))

print(check\_pow\_two(65))

def check\_pow\_of(n,powof=2):

if n<0:

raise Exception("not a positive integer")

for i in range(0,n):

if n == pow(powof,i):

return True

elif n < pow(powof,i):

return False

print(check\_pow\_of(27,3))

print(check\_pow\_of(65))

#Write a Python program to find missing number from a list.

def missing\_number(num\_list):

return sum(range(num\_list[0],num\_list[-1]+1)) - sum(num\_list)

print(missing\_number([1,2,3,4,6,7,8]))

print(missing\_number([10,11,12,14,15,16,17]))

#Write a Python program to find missing numbers from a list.

def missing\_numbers(num\_list):

original\_list = [x for x in range(num\_list[0], num\_list[-1] + 1)]

num\_list = set(num\_list)

return (list(num\_list ^ set(original\_list)))

print(missing\_numbers([1,2,3,4,6,7,10]))

print(missing\_numbers([10,11,12,14,17]))

#Write a Python program to find three numbers from an array such that the sum of three numbers equal to a given number

# returns true if there is triplet with

# sum equal to 'sum' present in A[].

# Also, prints the triplet

def find3Numbers(A, n):

arr\_size = len(A)

# Fix the first element as A[i]

for i in range( 0, arr\_size-2):

# Fix the second element as A[j]

for j in range(i + 1, arr\_size-1):

# Now look for the third number

for k in range(j + 1, arr\_size):

if A[i] + A[j] + A[k] == n:

print("Triplet is", A[i],

", ", A[j], ", ", A[k])

return True

# If we reach here, then no

# triplet was found

return False

# Driver program to test above function

A = [1, 4, 45, 6, 10, 8]

n = 22

find3Numbers(A, n)

# A simple Python 3 program

# to find three elements whose

# sum is equal to zero

# Prints all triplets in

# arr[] with 0 sum

def findTriplets(arr, n):

found = True

for i in range(0, n-2):

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

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

if (arr[i] + arr[j] + arr[k] == 0):

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

found = True

# If no triplet with 0 sum

# found in array

if (found == False):

print(" not exist ")

# Driver code

arr = [0, -1, 2, -3, 1]

n = len(arr)

findTriplets(arr, n)