# Python3 program for Bubble Sort Algorithm Implementation

def bubbleSort(arr):

n = len(arr)

# For loop to traverse through all

# element in an array

for i in range(n):

for j in range(0, n - i - 1):

# Range of the array is from 0 to n-i-1

# Swap the elements if the element found

#is greater than the adjacent element

if arr[j] > arr[j + 1]:

arr[j], arr[j + 1] = arr[j + 1], arr[j]

# Driver code

# Example to test the above code

arr = [ 2, 1, 10, 23 ]

bubbleSort(arr)

print("Sorted array is:")

for i in range(len(arr)):

print("%d" % arr[i])

Out Put

Sorted array is:

1

2

10

23