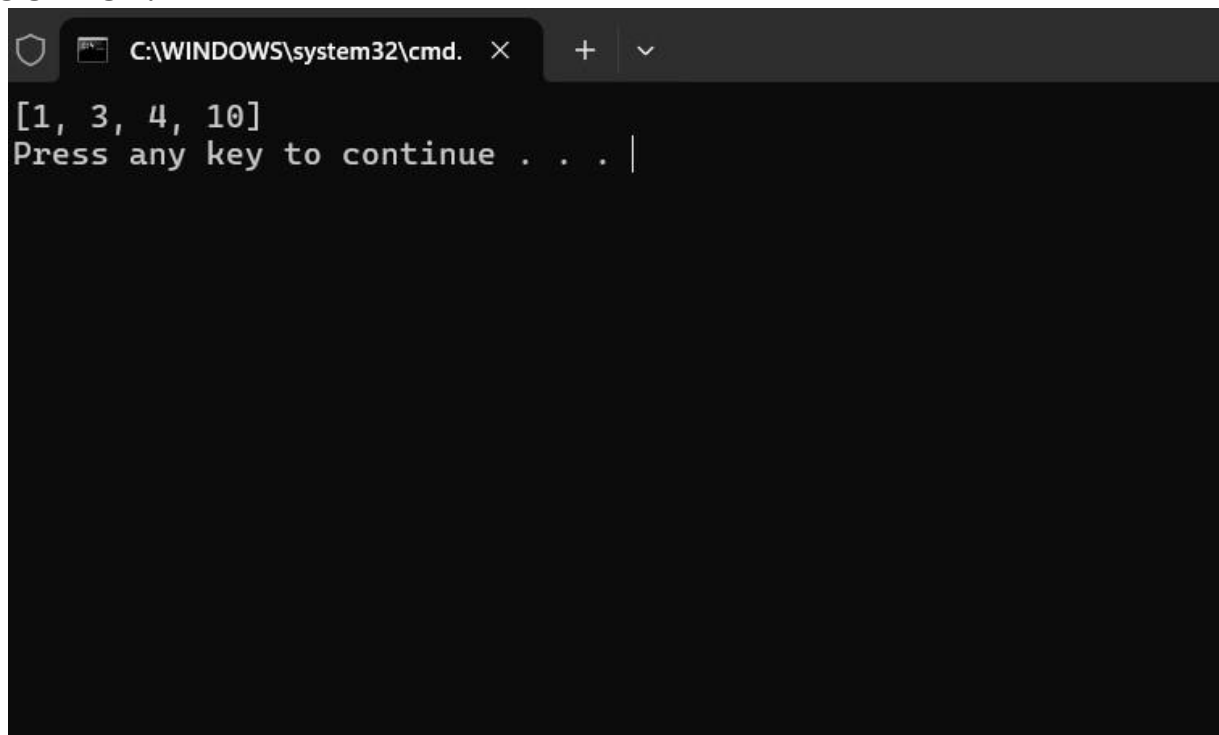48) Merge Sorted Array You are given two integer arrays nums1 and nums2, sorted in non-decreasing order, and two integers m and n, representing the number of elements in nums1 and nums2 respectively. Merge nums1 and nums2 into a single array sorted in non-decreasing order. The final sorted array should not be returned by the function, but instead be stored inside the array nums1. To accommodate this, nums1 has a length of m + n, where the first m elements denote the elements that should be merged, and the last n elements are set to 0 and should be ignored. nums2 has a length of n.

CODE: def
sort(a,b):
a.sort()
   b.sort()   c=[]   for i in
range(len(a)):
     c.append(a[i])   for i
in range(len(b)):
     c.append(b[i])
return c a=[3,1]
b=[10,4]
print(sort(a,b))
OUTPUT:

```
C:\WINDOWS\system32\cmd.   ×    +   ⌄

[1, 3, 4, 10]
Press any key to continue . . . |
```

TIME COMPLEXITY : O(m+n)