LAB-1

19CSE302

BY:

LOKESH KUMAR R

CH.EN.U4CSE20140

SELECTION SORT:

PSEUDO CODE:

CODE:

def sort(arr):

    n = len(arr)

    for i in range(n-1):

        min=i

        for j in range(i,n):

            if arr[j]<arr[min]:

                min=j

        arr[min],arr[i]=arr[i],arr[min]

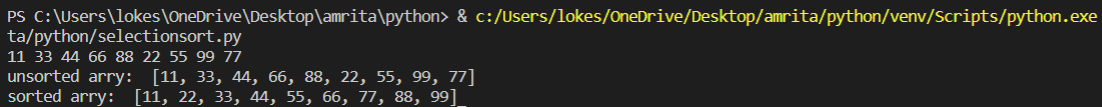
inp = [int(i) for i in input().split()]

print("unsorted arry: ",inp)

sort(inp)

print("sorted arry: ",inp)

OUTPUT:



INSERTION SORT:

PSEUDO CODE:

CODE:

def insertion\_sort(alist):

    for i in range(1, len(alist)):

        temp = alist[i]

        j = i - 1

        while (j >= 0 and temp < alist[j]):

            alist[j + 1] = alist[j]

            j = j - 1

        alist[j + 1] = temp

alist = input('Enter the numbers to be sorted: ').split()

alist = [int(x) for x in alist]

insertion\_sort(alist)

print('Sorted list: ', end='')

print(alist)

OUTPUT:

