DSA Assignment no. 5

bscs 01 Section b

Muhammad qalb e ali

REg no. 200901105

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**CODE:**

from time import time

start\_time=time()

def bubblesort(arr):

n=len(arr)

for i in range(n-1):

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

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

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

arr=[]

size=int(input("Enter the size of array you want to sort:"))

print("Enter the elements")

for i in range(size):

val=input()

arr.append(val)

bubblesort(arr)

print("The sorted array is: ")

end\_time=time()

elapsed\_time=end\_time-start\_time

for i in range (len(arr)):

print(arr[i])

end\_time\_af\_prt=time()

elp\_af=end\_time\_af\_prt-start\_time

print(" Time taken :", elapsed\_time)

Text

Description automatically generated**OUTPUT:**

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