

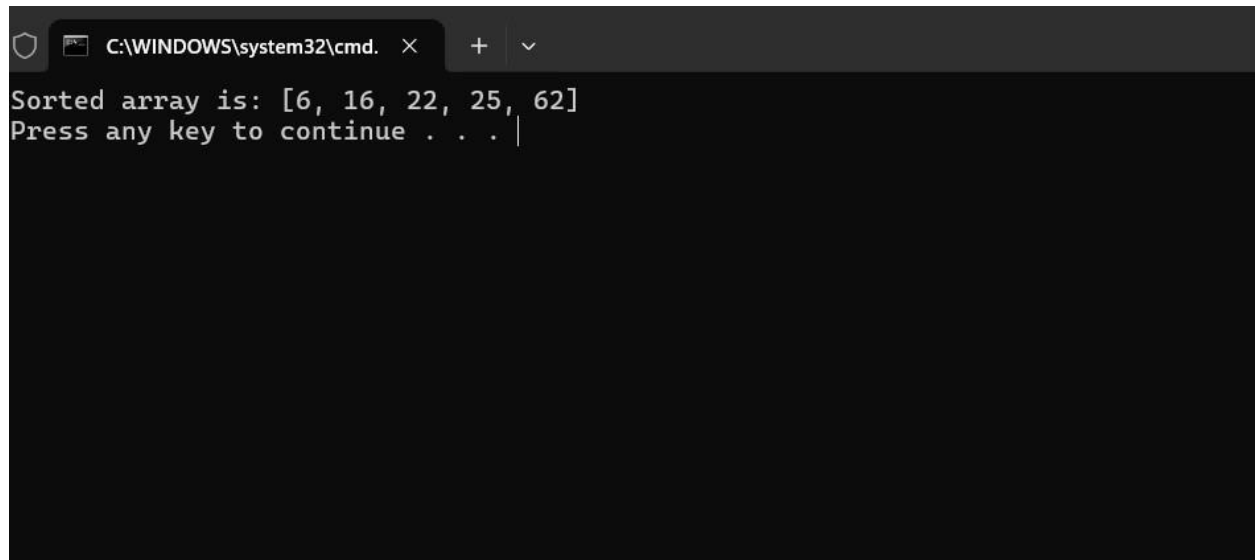
72)Bubble Sort

CODE:

```
def bubble_sort(arr):    n = len(arr)    for i in
range(n):        for j in range(0, n-i-1):            if
arr[j] > arr[j+1]:                arr[j], arr[j+1] =
arr[j+1], arr[j]
```

```
arr = [6, 25, 62, 22, 16]
bubble_sort(arr)
print("Sorted array is:", arr)
```

OUTPUT:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output of the program: 'Sorted array is: [6, 16, 22, 25, 62]' followed by a prompt 'Press any key to continue . . . |'.

```
Sorted array is: [6, 16, 22, 25, 62]
Press any key to continue . . . |
```

TIME COMPLEXITY : $O(n^2)$