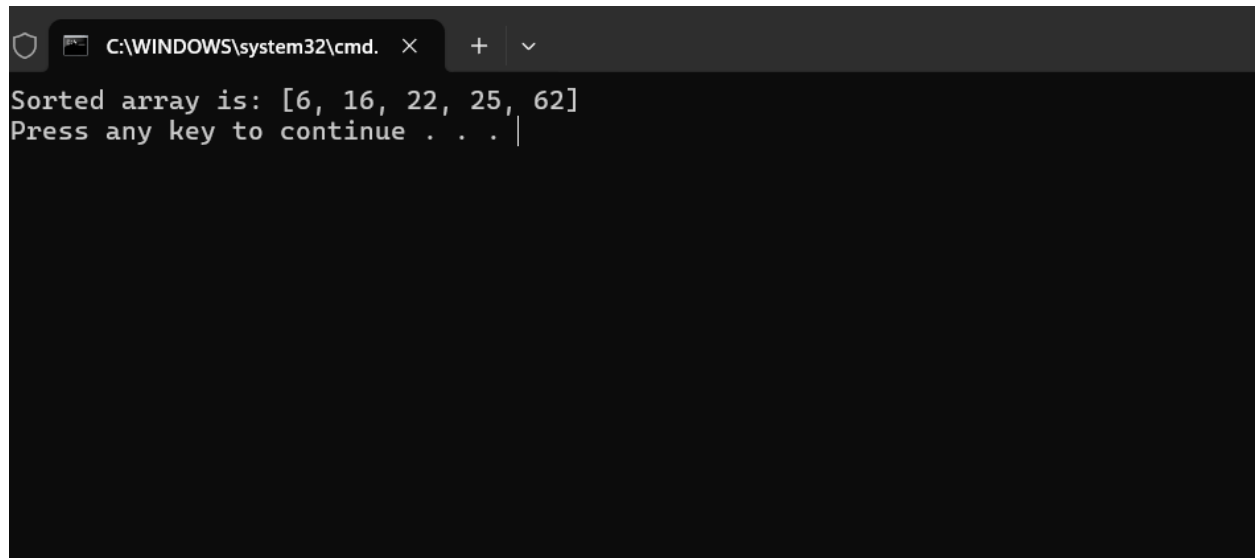


72)Bubble Sort

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 'Press any key to continue . . . |'. The cursor is positioned at the end of the line.

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

TIME COMPLEXITY : $O(n^2)$