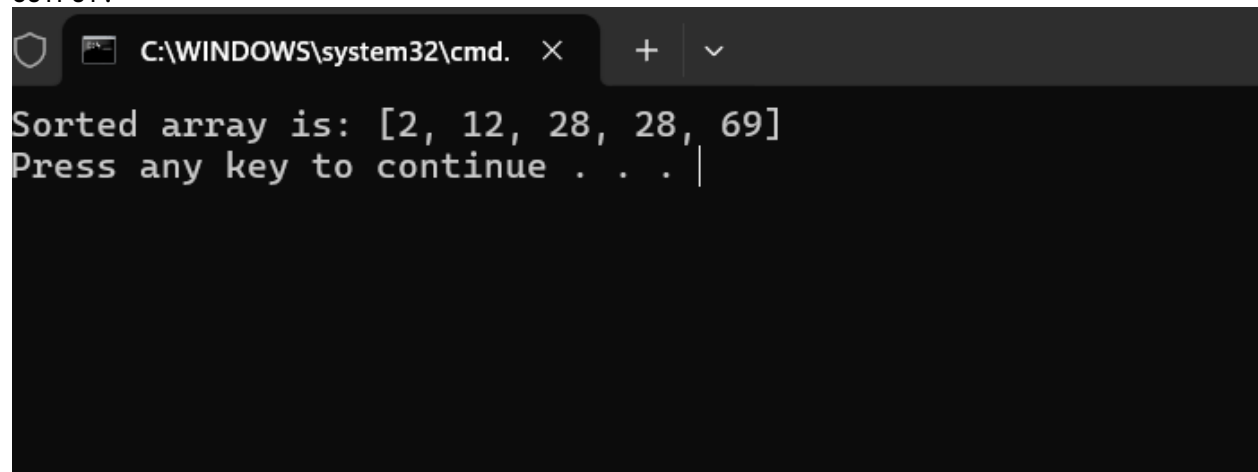


### 73) Insertion Sort

CODE:

```
def insertion_sort(arr):  
    for i in range(1, len(arr)):  
        key = arr[i]  
        j = i - 1  
        while j >= 0 and key < arr[j]:  
            arr[j + 1] = arr[j]  
            j -= 1  
        arr[j + 1] = key
```

```
arr = [69, 28, 2, 28, 12]  
insertion_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: [2, 12, 28, 28, 69]' followed by 'Press any key to continue . . . |'.

```
C:\WINDOWS\system32\cmd.  X  +  v  
  
Sorted array is: [2, 12, 28, 28, 69]  
Press any key to continue . . . |
```

TIME COMPLEXITY :  $O(n^2)$