

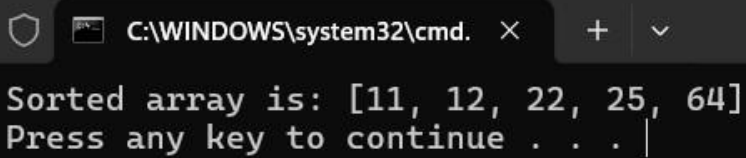
71) Selection Sort

CODE:

```
def selection_sort(arr):  
    n = len(arr)    for i in range(n):  
        min_index = i    for j in range(i + 1,  
n):        if arr[j] < arr[min_index]:  
            min_index = j  
            arr[i], arr[min_index] = arr[min_index], arr[i]
```

```
arr = [64, 25, 12, 22, 11]  
selection_sort(arr) print("Sorted  
array is:", arr)
```

OUTPUT:



The screenshot shows a Windows command prompt window with the title bar 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output of the program: 'Sorted array is: [11, 12, 22, 25, 64]' followed by 'Press any key to continue . . . |'.

TIME COMPLEXITY : $O(n^2)$