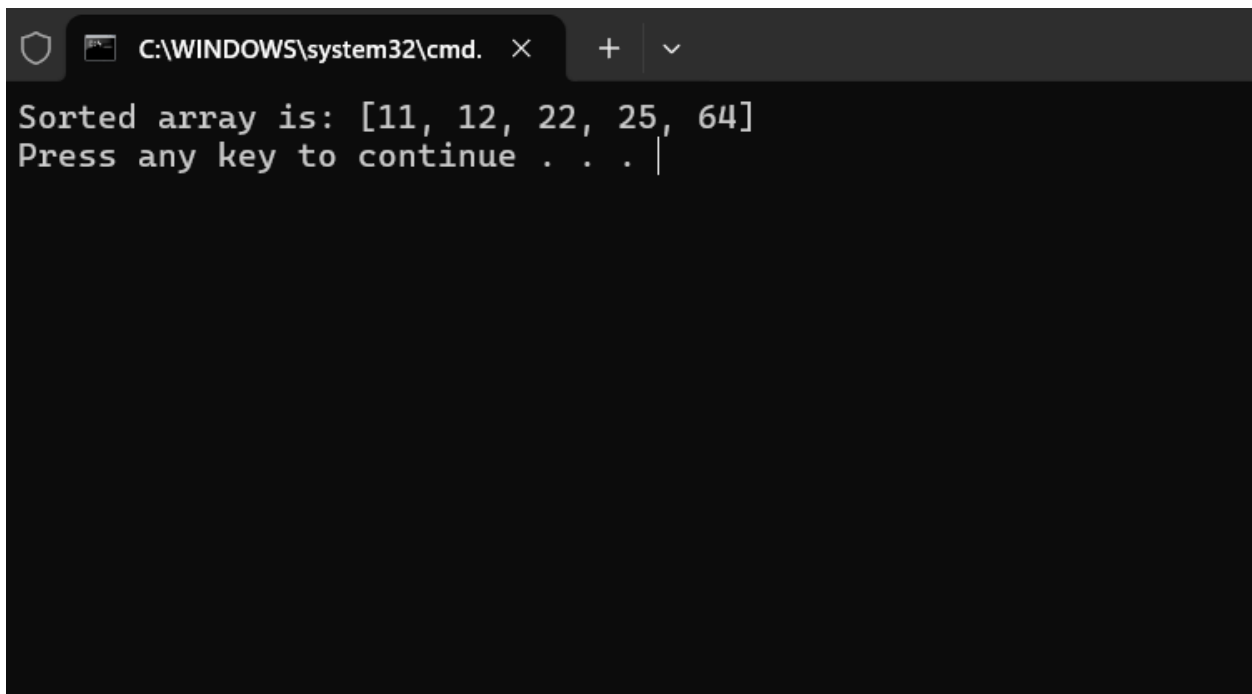


71) Selection Sort

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:

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: [11, 12, 22, 25, 64]' followed by 'Press any key to continue . . . |'.

```
C:\WINDOWS\system32\cmd.  X  +  v  
  
Sorted array is: [11, 12, 22, 25, 64]  
Press any key to continue . . . |
```

TIME COMPLEXITY : $O(n^2)$