

EXERCISE-71; Selection Sort

PROGRAM;

```
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;

```
----- PYTHON: C:/Users/Apple/AppData/Local/Programs/Python/Python38-64/Python38-64.exe  
| Sorted array is: [11, 12, 22, 25, 64]  
..|
```

TIME COMPLEXITY ; $O(n^2)$