

71.Selection Sort

AIM: Write a python program to Sort array of elements by using 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]  
    return arr  
  
arr = [64, 25, 12, 22, 11]  
sorted_arr = selection_sort(arr)  
print("Sorted array is:", sorted_arr)
```

OUTPUT:

```
Sorted array is: [11, 12, 22, 25, 64]
```

TIME COMPLEXITY: $O(n^2)$