

CODE.....

```
def quick_sort(arr):
    if len(arr) <= 1:
        return arr
    else:
        pivot = arr[0]
        less_than_pivot = [i for i in arr[1:] if i <= pivot]
        greater_than_pivot = [i for i in arr[1:] if i > pivot]
        return quick_sort(less_than_pivot) + [pivot] +
quick_sort(greater_than_pivot)

arr = [48, 94, 23, 56, 77, 66, 45, 10]
print("Given Array")
print(arr)
sorted_arr = quick_sort(arr)
print("Sorted Array")
print(sorted_arr)
```

OUTPUT.....

```
PS D:\AI Elective> python Quick.py
Given Array
[48, 94, 23, 56, 77, 66, 45, 10]
Sorted Array
[10, 23, 45, 48, 56, 66, 77, 94]
```