## Practical No.: 3

Name: Mohan Kadambande **Roll No.:** 13212 Aim: Implement Selection Sort using Greedy Search Algorthm. Code: def selectionSort(arr): n = len(arr)# Traverse through all elements in the array for i in range(n): # Find the minimum element in the unsorted portion of the list min index = i for j in range(i + 1, n): if arr[j] < arr[min\_index]:</pre> min\_index = j # Swap the found minimum element with the first element of the unsorted part arr[i], arr[min index] = arr[min index], arr[i] return arr if name == " main ": # Take input from the user arr = list(map(int, input("Enter the elements of the array (space-separated): ").split())) print("Original Array:", arr) sorted arr = selectionSort(arr) print("Sorted Array:", sorted arr) **Output:** Enter the elements of the array (space-separated): 10 40 30 60 50 Original Array: [10, 40, 30, 60, 50] Sorted Array: [10, 30, 40, 50, 60]