**Practical -3**

**Implement Greedy search algorithm for any of the following application: I. Selection Sort**

#include <iostream>

using namespace std;

void selectionSort(int arr[], int n) {

for (int i = 0; i < n - 1; i++) {

// Find the index of the minimum element in the unsorted part

int min\_idx = i;

for (int j = i + 1; j < n; j++) {

if (arr[j] < arr[min\_idx]) {

min\_idx = j;

}

}

// Swap the minimum element with the first element of the unsorted part

if (min\_idx != i) {

swap(arr[i], arr[min\_idx]);

}

}

}

int main() {

int arr[] = {64, 25, 12, 22, 11};

int n = sizeof(arr) / sizeof(arr[0]);

selectionSort(arr, n);

cout << "Sorted array: ";

for (int i = 0; i < n; i++) {

cout << arr[i] << " ";

}

cout << endl;

return 0;

}