EXPERIMENT NO.2

```
Selection Sort
Program:-
#include <stdio.h>
void selectionSort(int arr[], int n) {
   int i, j, minIndex, temp;
   for (i = 0; i < n - 1; i++) {
     minIndex = i;
     for (j = i + 1; j < n; j++) {
        if (arr[j] < arr[minIndex]) {</pre>
           minIndex = j;
        }
     }
     // Swap arr[i] and arr[minIndex]
     temp = arr[i];
     arr[i] = arr[minIndex];
     arr[minIndex] = temp;
  }
}
int main() {
   int arr[] = \{64, 25, 12, 22, 11\};
   int n = sizeof(arr) / sizeof(arr[0]);
   printf("Array before sorting:\n");
   for (int i = 0; i < n; i++) {
     printf("%d ", arr[i]);
   }
  printf("\n");
   selectionSort(arr, n);
   printf("Array after sorting:\n");
   for (int i = 0; i < n; i++) {
     printf("%d ", arr[i]);
   }
  printf("\n");
   return 0;
}
```

Output:-

```
Array before sorting:
64 25 12 22 11
Array after sorting:
11 12 22 25 64

=== Code Execution Successful ===
```