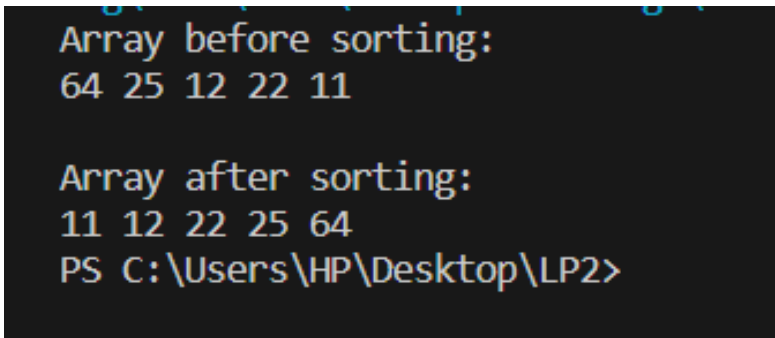


## SELECTION SORT

```
public class SelectionSort {  
    public static void selectionSort(int[] arr) {  
        int n = arr.length;  
        for (int i = 0; i < n - 1; i++) {  
            int minIndex = i;  
            // Find the index of the minimum element in the unsorted part of the  
array  
            for (int j = i + 1; j < n; j++) {  
                if (arr[j] < arr[minIndex]) {  
                    minIndex = j;  
                }  
            }  
            // Swap the minimum element with the first element of the unsorted  
part  
            int temp = arr[minIndex];  
            arr[minIndex] = arr[i];  
            arr[i] = temp;  
        }  
    }  
    public static void main(String[] args) {  
        int[] arr = {64, 25, 12, 22, 11};  
        System.out.println("Array before sorting:");  
        printArray(arr);  
        selectionSort(arr);  
    }  
}
```

```
        System.out.println("\nArray after sorting:");
        printArray(arr);
    }
    public static void printArray(int[] arr) {
        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i] + " ");
        }
        System.out.println();
    }
}
```

OUTPUT:



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

Array after sorting:
11 12 22 25 64
PS C:\Users\HP\Desktop\LP2>
```