## Practive2

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Data Structure

Course code 23032

## 1 Selection Sorting

```
[3]: def selectionSorting(arr):
for i in range(len(arr)-1, 0, -1):
    max_i = 0
    max_v = 0
    for j in range(i):
        if arr[j] > max_v:
             max_v = arr[j]
             max_i = j
    if arr[i] < max_v:
             temp = arr[i]
             arr[i], arr[max_i] = arr[max_i], temp</pre>
```

## 1.1 Exp1

```
[4]: data = [11, 33, 55, 22, 92, 44]
```

```
[5]: selectionSorting(data)
```

```
[5]: [11, 22, 33, 44, 55, 92]
```

## 1.2 Exp2

```
[6]: data = [10, 205, 88, 774, 1, 25, 856, 21]
```

```
[7]: selectionSorting(data)
```

```
[7]: [1, 10, 21, 25, 88, 205, 774, 856]
```