## **Selection Sort**

Selection sort is a sorting algorithm that sorts an array by repeatedly finding the minimum element and putting them in ascending order.

Advantages of Selection Sort Algorithm

- 1. Simple and easy to understand.
- 2. Works well with small datasets.

Disadvantages of the Selection Sort Algorithm

- 1. Selection sort has a time complexity of  $O(n^2)$  in the worst and average case.
- 2. Does not work well on large datasets.
- 3.Does not preserve the relative order of items with equal keys which means it is not stable.
- Selection Sort in Ascending order

Selection Sort in Descending order

```
import array
from array import *
def selection(array):
    n=len(array)
    for i in range(n-1):
        current_min=i
        for x in range(i+1,n):
            if array[current_min]
        array[i],array[actual_min]=array[actual_min],array[i]
        print(array)

a=array('i',[8,5,2,6,3,1])
selection(a)

array('i', [8, 6, 5, 3, 2, 1])
```

Start coding or generate with AI.