Practical 3:

 # Selection Sort Ascending order

```
def selectionSort(array, size):

    for ind in range(size):
        min_index = ind

        for j in range(ind + 1, size):
            # select the minimum element in every iteration
            if array[j] < array[min_index]:
                min_index = j
        # swapping the elements to sort the array
        (array[ind], array[min_index]) = (array[min_index], array[ind])

arr = [12,57,-5,5,69,-1]
size = len(arr)
selectionSort(arr, size)
print('The array after sorting in Ascending Order by selection sort is:')
print(arr)
```

Output:

```
(base) ubuntu@ubuntu-OptiPlex-3090:~$ python Selsort.py
The array after sorting in Ascending Order by selection sort is:
[-5, -1, 5, 12, 57, 69]
```

 # Selection Sort Descending order

```
def selectionSort(array, size):

    for ind in range(size):
        min_index = ind

        for j in range(ind + 1, size):
            # select the minimum element in every iteration
            if array[j] > array[min_index]:
                min_index = j
        # swapping the elements to sort the array
        (array[ind], array[min_index]) = (array[min_index], array[ind])

arr = [12,57,-5,5,69,-1]
size = len(arr)
selectionSort(arr, size)
print('The array after sorting in Descending Order by selection sort is:')
print(arr)
```

Output:

```
(base) ubuntu@ubuntu-OptiPlex-3090:~$ python seldesc.py
The array after sorting in Descending Order by selection sort is:
[69, 57, 12, 5, -1, -5]
```