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Write a program to implement various sorting operations

1] Selection Sort

PythonProgramming 〉 Experiment_No_09 〉 Selection_sort.py

Selection_sort.py

```
def selection_sort(list):
    length = len(list)

    for i in range(length - 1):
        min = i
        for j in range(i+1,length):
            if list[j] < list[min]:
                min = j
        list[i],list[min] = list[min],list[i]
        print("Step :- ",i+1,list)

list = []
n = int(input("Enter the number of elements are:"))
for i in range(n):
    ele = int(input())
    list.append(ele)
print("Given list is :",list)

selection_sort(list)
print("Sorted list is :",list)
```

Run: Selection_sort

```
C:\Python_3.11.2\python.exe D:\PythonProgramming\Experiment_No_09\Selection_sort.py
Enter the number of elements are:5
7
9
1
2
4
Given list is : [7, 9, 1, 2, 4]
Step :-  1 [1, 9, 7, 2, 4]
Step :-  2 [1, 2, 7, 9, 4]
Step :-  3 [1, 2, 4, 9, 7]
Step :-  4 [1, 2, 4, 7, 9]
Sorted list is : [1, 2, 4, 7, 9]

Process finished with exit code 0
```