Selection sort

M.Malarmathi

AP/IT

- **Selection sort** exchanges only one value for every pass through the list
  - selection sort looks for the smallest value as it makes a pass and, after completing the pass, places it in the proper location.

Original Array	After 1st pass	After 2nd pass	After 3rd pass	After 4th pass	After 5th pass
3	1	1	1	1	1
6	6	3	3	3	3
①	③	6	4	4	4
8	8	8	8	5	5
4	4	④	6	⑥	6
5	5	5	⑤	8	8

Program

```
size=int(input("enter  the number ofelements:"))
lst=[]
print("Enter the elements:")
for i in range (0, size):
    lst.append(int(input()))
print("the elements of the list are:",lst)
for  i  in range (0, size-1):
    min=i
    for j in range (i+1, size):
        if  lst[j]<lst[i]:
            min=j
            temp=lst[i]
            lst[i]=lst[min]
            lst[min]=temp
print(lst)
```

OutPut

enter the number ofelements:5
Enter the elements:
3
2
1
0
4
('the elements of the list are:', [3, 2, 1, 0, 4])
[0, 1, 2, 3, 4]

Thank You