

Three Little Python in Excel Programs source code and output:

```
# See "Python Cookbook"
# Second Edition p. 15
str = "this is my string"
print(str) # print the string
revwords = str.split() # string to a list of words
revwords.reverse()
print(revwords) # print list
revwords = ' '.join(revwords)
print(revwords) # print string
this is my string
['string', 'my', 'is', 'this']
string my is this

alist = [5, 2, 1, 7, 6, 3, 4]
print(alist)
alist.sort()
print(alist)
names = ["Jo", "Alice", "Bob"]
names.sort()
print(names)
names.reverse()
print(names)
[5, 2, 1, 7, 6, 3, 4]
[1, 2, 3, 4, 5, 6, 7]
['Alice', 'Bob', 'Jo']
['Jo', 'Bob', 'Alice']

def selectionSort(alist, rev):
    if not rev:
        for i in range(len(alist) - 1):
            for j in range(i + 1, len(alist)):
                if alist[i] > alist[j]:
                    temp = alist[i]
                    alist[i] = alist[j]
                    alist[j] = temp
    else:
        for i in range(len(alist) - 1):
            for j in range(i + 1, len(alist)):
                if alist[i] < alist[j]:
                    temp = alist[i]
                    alist[i] = alist[j]
                    alist[j] = temp
alist = [5, 7, 4, 8, 3, 6, 1, 2]
print(alist)
selectionSort(alist, False)
```

```
print(alist)
selectionSort(alist, True)
print(alist)
[5, 7, 4, 8, 3, 6, 1, 2]
[1, 2, 3, 4, 5, 6, 7, 8]
[8, 7, 6, 5, 4, 3, 2, 1]
```