## MODUL 5 **LATIHAN**

#### **PENGURUTAN**

# Routine swap

```
def swap(A,p,q):
>>> K = [50,20,70,10]
                                tmp = A[p]
A[p] = A[q]
A[q] = tmp
>>> swap (K,1,3)
>>> K

[50, 10, 70, 20]

>>> A = [18,13,44,25,66,107,78,89]
return posisiyangterkecil
```

### Bubble sort

```
File Edit Shell Debug Options Window Help
                                                                                                                              Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020 it (AMD64)] on win32
Type "help", "copyright", "credits" or "licens
                                                                                                                               = RESTART: E:/KULIAH/SEMESTER 4/prak algostruk
                                                                                                                              = RESTART: E:/KULTAH/SEMESTER 4/prak algos
rt.py
>>> L=[10,51,2,18,4,31,13,5,23,64,29]
>>> j = bubblesort(L)
>>> print(L)
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
>>> |
```

#### Selection sort

```
Fire tall Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 20;
D64)] on win32
Type "help", "copyright", "credits" or "licer
 rile Edit Format Kun Options Window Help
from routine swap import swap, cariposisiyangterkecil
def selectionsort(A):
    n = len(A)
    for i in range(n-1):
        indexkecil = cariposisiyangterkecil(A,i,n)
        if indexkecil != i:
        swap(A,i,indexkecil)
                                                                                                                                                                                   >>>
= RESTART: E:/KULIAH/SEMESTER 4/prak algostru
.py
                                                                                                                                                                                    >>> L = [10,51,2,18,4,31,13,5,23,64,29]
>>> k = selectionsort(L)
                                                                                                                                                                                   >>> print(L)
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
```

## Insertion sort