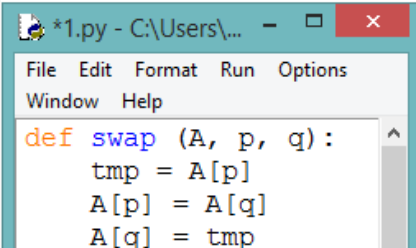Aji Mustaqim

L200180141/E

ALGOSTRUK MODUL 5

KEGIATAN

```
>>>
========= RESTART: C:/Users/AJI TOSKA/Music
/algo/modul5lat/modul5.py =========
>>> K=[50,20,70,10]
>>> swap(K,1,3)
>>> K
[50, 10, 70, 20]
>>>
```

```
def swap (A, p, q):
    tmp = A[p]
    A[p] = A[q]
    A[q] = tmp
```

```
=============== RESTART: C:\Users\AJI TOSKA\Music\algo\1.
py ================
>>> A=[18,13,44,25,66,107,78,89]
>>> j=cariPosisiTerkecil(A,2,len(A))
>>> j
3
>>>
```

```
def cariPosisiTerkecil(A, dariSini, sampaiSini):
    posisiTerkecil = dariSini
    for i in range(dariSini+1, sampaiSini):
        if A[i] < A[posisiTerkecil]:
            posisiTerkecil = i
    return posisiTerkecil
```

```
def bubbleSort(A):
    n = len(A)
    for i in range(n-1):
        for j in range(n-i-1):
            if A[j]>A[j+1]:
                swap(A, j, j+1)
```

```
def selectionSort(A):
    n = len(A)
    for i in range(n-1):
        indexKecil = cariPosisiTerkecil(A, i, n)
        if indexKecil != i:
            swap(A, i, indexKecil)
```

```
def insertionSort(A):
    n = len(A)
    for i in range(1, n):
        nilai = A[i]
        pos = i
        while pos > 0 and nilai < A[pos -1]:
            A[pos] = A[pos - 1]
            pos = pos - 1
        A[pos] = nilai
```