Nama: MuchFatan Rahmadan

NIM : L200180061

Kelas : C

#### Modul 5

#### 5.1

#### **Program Python**

```
Modul 5.py - C:/Users/Mr_Darkness/AppData/Local/Programs/Python/Python38-32/Modul 5.py (3.8.2)
                                                                                                                                                                                                                                                                                                                                               File Edit Format Run Options Window Help
  ##cariPosisiTerkecil
def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
    posisiYangTerkecil = dariSini
    for i in range(dariSini+l, sampaiSini):
        if A[i] < A[posisiYangTerkecil]:
            posisiYangTerkecil = i
        return posisiYangTerkecil
##Debuger
#A = [18,13,44,25,66,107,78,89]
#j = cariPosisiYangTerkecil(A,2,len(A))
#j</pre>
    ##cariPosisiTerkecil
```

#### Hasil

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
 >>> = RESTART: C:/Users/Mr_Darkness/AppData/Local/Programs/Python/Python38-32/Modul 5.py
= RESTART: C:/Users/Mr_Darkness/AppData/Loc
>>> K = [50,20,70,10]
>>> swap(K,1,3)
>>> K
[50, 10, 70, 20]
>>> A = [18,13,44,25,66,107,78,89]
>>> j = cariPosisiYangTerkecil(A,2,len(A))
>>> 3
 >>> L = [10,51,2,18,4,31,13,5,23,64,29]
 >>> bubbleSort(L)
>>> print(L)
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
>>>
```

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## 5.2

## **Program Python**

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

#### Hasil

```
>>> selectionSort(L)
>>> print(L)
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
```

## 5.3

# **Program Python**

```
##InsertionSort
def insertionSort(A):
    n = len(A)
    for i in range(l,n):
        nilai = A[i]
        pos = i
        while pos > 0 and nilai<A[pos - 1]:
        A[pos]=A[pos-1]
        pos = os -1
        A[pos]=nilai
P=[10,51,2,18,4,31,13,5,23,64,29]</pre>
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                                                                                                                                                                                                                                                                                                                           0.00 MB/s ヘ 恒 //。(4))ENG 14:07 📮
Hasil
>>> insertionSort(P)
>>> print(P)
| [2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
```