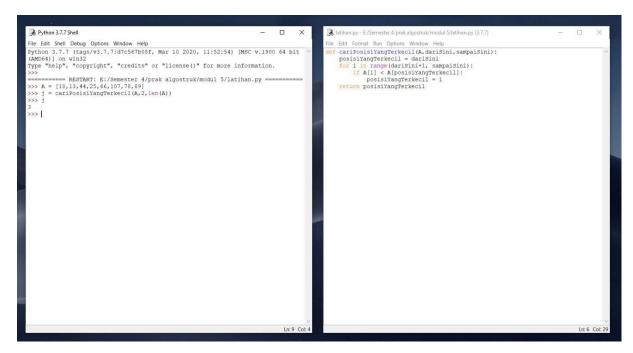
Nama: Raihan Mazarul H

NIM : L200180162

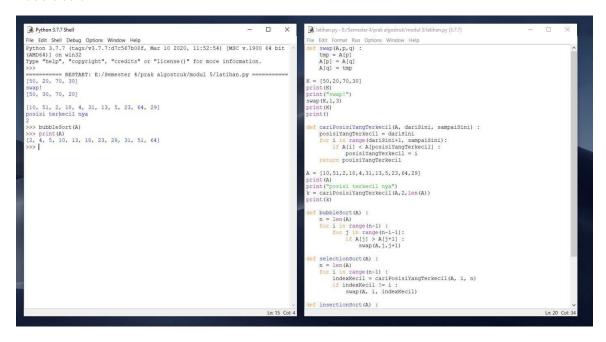
Kelas: F

PRAK ASD MODUL 5 LATIHAN

```
Python 3.7.7 Shell
                                                                           File Edit Shell Debug Options Window Help
Python 3.7.7 (tags/v3.7.7:d7c567b08f, Mar 10 2020, 11:52:54) [MSC v.1900 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
====== RESTART: E:/Semester 4/prak algostruk/modul 5/latihan.py ========
>>> K = [50, 20, 70, 10]
>>> swap(k,1,3)
Traceback (most recent call last):
 File "<pyshell#1>", line 1, in <module>
   swap (k, 1, 3)
NameError: name 'k' is not defined
>>> swap (K, 1, 3)
>>> K
[50, 10, 70, 20]
>>>
                                                                           Ln: 14 Col: 4
```



Bubble sort



SelectionSort

```
Python 3.7.7 Shell
                                                                                                                                                                                                     latihan.py - E:/Semester 4/prak algostruk/modul 5/latihan.py (3.7.7)
file Edit Shell Debug Options Window Help
Python 3.7.7 (tags/v3.7.7:d7c567b08f, Mar 10 2020, 11:52:54) [MSC v.1900 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                                                                                                                      File Edit Format Run Options Window Help
RESTART: E:/Semester 4/prak algostruk/modul 5/latihan.py = [50, 20, 70, 30]
                                                                                                                                                                                                            cariFosisiYangTerkecil(A, dariSini, sampaiSini):
posisiYangTerkecil = dariSini
for i in range(dariSini*1, sampaiSini):
   if A[i] < A[posisiYangTerkeci]:
    posisiYangTerkecil = i
return posisiYangTerkecil</pre>
swap!
[50, 30, 70, 20]
[10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29] posisi terkecil nya
                                                                                                                                                                                                          = [10,51,2,18,4,31,13,5,23,64,29]
int(A)
   >> selectionSort(A)
>>> print(A)
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
>>> |
                                                                                                                                                                                                          int("posisi terkecil nya")
= cariPosisiYangTerkecil(A,2,len(A))
                                                                                                                                                                                                         cint(k)
                                                                                                                                                                                                         f 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)
                                                                                                                                                                                                             selectionSort(A) :
n = len(A)
for i in range(n-1) :
indexKecil = cariPosisiYangTerkecil(A, i, n)
if indexKecil |= i :
    swap(A, i, indexKecil)
                                                                                                                                                                                                        ef 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</pre>
```

insertionSort

```
Puthon 3.7.7 Shell
 File Edit Shell Debug Options Window Help
Python 3.7.7 (tags/v3.7.7:d7c567b08f, Mar 10 2020, 11:52:54) [MSC v.1900 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                                                                                       File Edit Format Run Options Window Help
print(K)
print()
                                                                                                                                                                         ef cariPosisiYangTerkecil(A, dariSini, sampaiSini):
    posisiYangTerkecil = dariSini
    for i in range(dariSini+1, sampaiSini):
        if A[i] < A[posisiYangTerkecil]:
            posisiYangTerkecil</pre>
>>> RESTART: E:/Semester 4/prak algostruk/modul 5/latihan.py == [50, 20, 70, 30] swap! [50, 30, 70, 20]
[10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
posisi terkecil nya
                                                                                                                                                                          = [10,51,2,18,4,31,13,5,23,64,29]
rint(A)
rint("posisi terkecil nya")
= cariPosisiYangTerkecil(A,2,len(A))
  >> selectionSort(A)
 >>> print(A)
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
                                                                                                                                                                         rint(k)
                                                                                                                                                                         swap!
[50, 30, 70, 20]
 [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
posisi terkecil nya
2
>>> insertionSort(A)
>>> print(A)
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
>>> |
                                                                                                                                                                          f selectionSort(A) :
                                                                                                                                                                             selectionSolv(x) ...
for i in range(n-1):
   indexRecil = cariPosisiYangTerkecil(A, i, n)
   if indexRecil != i :
        swap(A, i, indexRecil)
                                                                                                                                                                         ef 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</pre>
                                                                                                                                                                                     pos = pos -
A[pos] = nilai
```