Nama: kevin hansa wardhana

NIM: L200180004

Kelas: A

PRAKTIKUM ALGORITMA STRUKTUR DATA LATIHAN MODUL 5

```
Python 3.8.1 Shell
                                              🕝 latihan.py - C:/Users/kevin/AppData/Local/Programs/Python/Python38-32/latihan.
File Edit Shell Debug Options Window Help
                                              File Edit Format Run Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 20 def swap(A,p,q):
tel)] on win32
                                                  tmp=A[p]
Type "help", "copyright", "credits" or "lice
                                                  A[p]=A[q]
                                                  A[q]=tmp
= RESTART: C:/Users/kevin/AppData/Local/Prog
>>> k=[50, 20, 70, 10]
                                              def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
>>> swap(k, 1, 3)
                                                  posisiTerkecil=dariSini
>>> k
                                                   for i in range(dariSini+1, sampaiSini):
[50, 10, 70, 20]
                                                      if A[i] < A[posisiTerkecil]:</pre>
>>> a=[18, 13, 44, 25, 66, 107, 78, 89]
                                                          posisiTerkecil=i
>>> j=cariPosisiYangTerkecil(a, 2, len(a))
                                                  return posisiTerkecil
>>> j
                                              #Latihan 5.1
>>> a=[50, 20, 70, 10, 30, 60]
                                              def bubbleSort(a):
>>> bubbleSort(a)
                                                  n=len(a)
>>> a
                                                   for i in range(n-1):
[10, 20, 30, 50, 60, 70]
                                                       for j in range(n-i-1):
>>> b=[50, 20, 70, 10, 30, 60]
                                                           if a[j] > a[j+1]:
>>> selectionSort(b)
                                                               swap(a,j,j+1)
[10, 20, 30, 50, 60, 70]
                                              #Latihan 5.2
>>> x=[50, 20, 70, 10, 30, 60]
                                              def selectionSort(a):
>>> insertionSort(x)
                                                  n=len(a)
>>> x
                                                  for i in range(n-1):
[10, 20, 30, 50, 60, 70]
                                                      indexKecil=cariPosisiYangTerkecil(a,i,n)
222
                                                      if indexKecil != i:
                                                          swap(a,i,indexKecil)
                                              #Latihan 5.3
                                              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
```