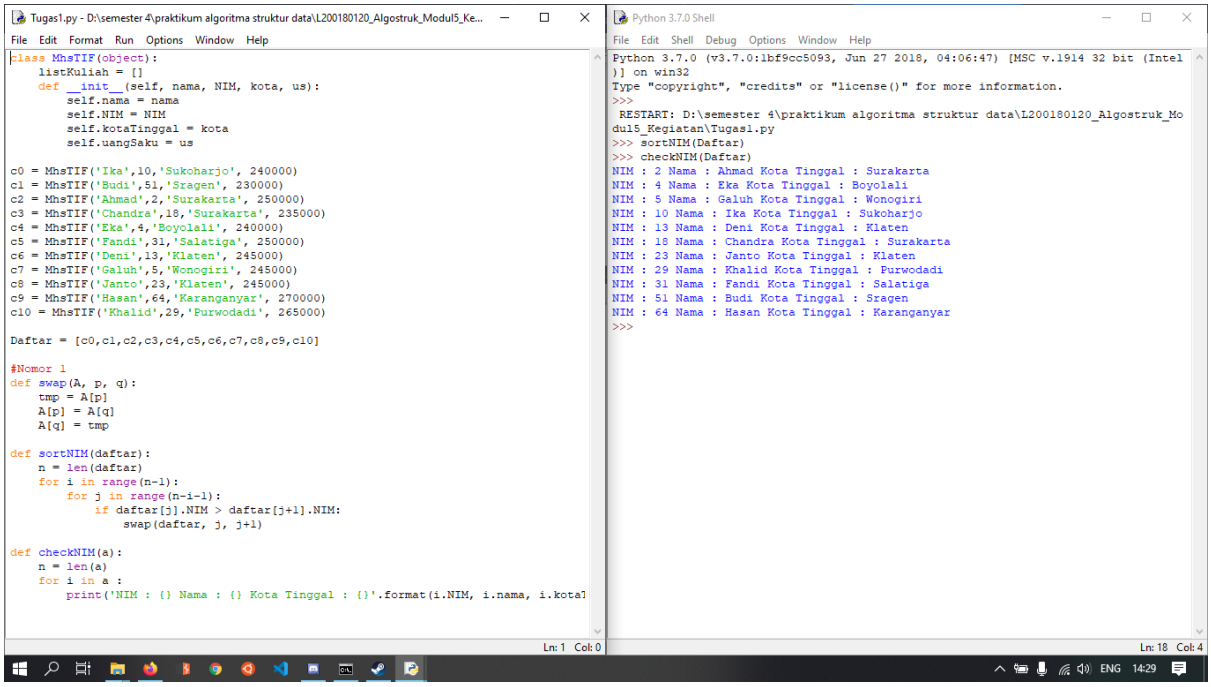
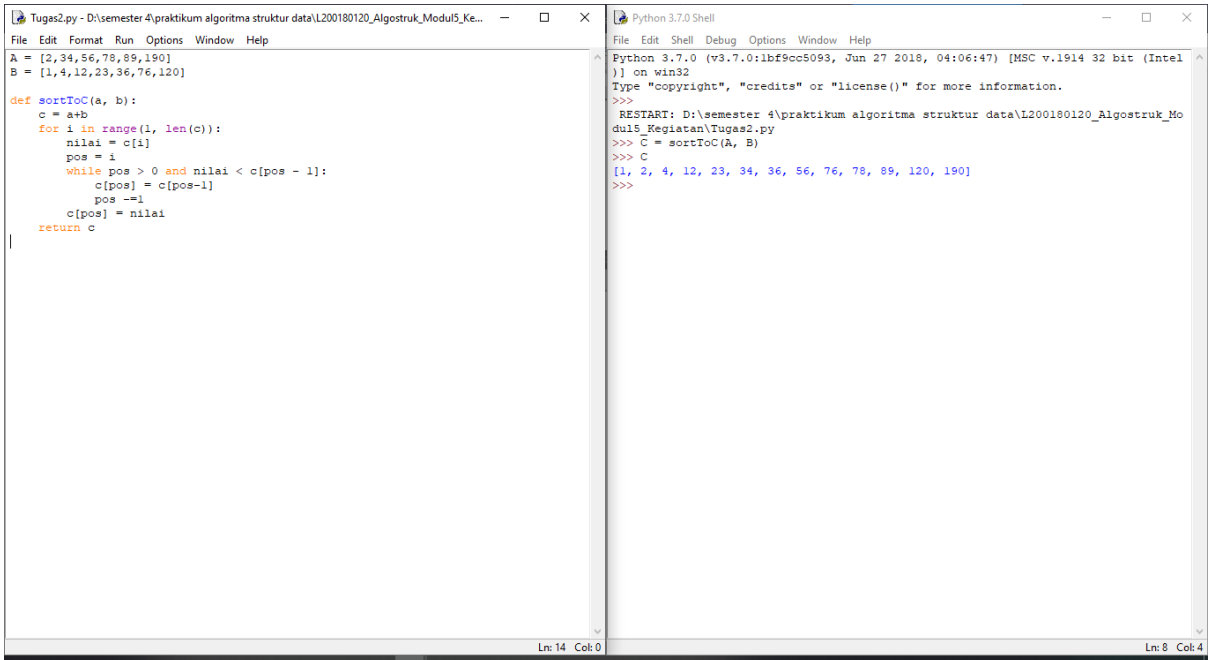
Nama : Maulana Alhif Ikhsan

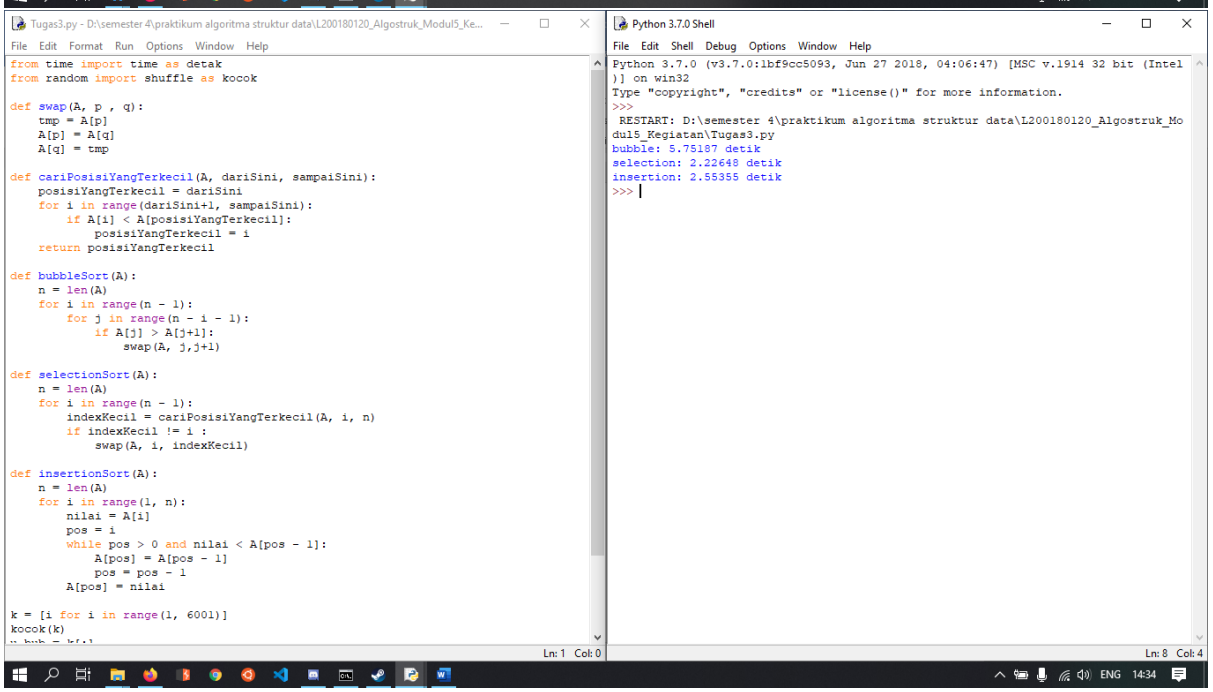
NIM : L200180120

Kelas : E

Tugas Modul 5




Tugas2.py - D:\semester 4\praktikum algoritma struktur data\L200180120_Algostruk_Modul5_Ke...
File Edit Format Run Options Window Help
A = [2,34,56,78,89,190]
B = [1,4,12,23,36,76,120]
def sortToC(a, b):
c = a+b
for i in range(1, len(c)):
nilai = c[i]
pos = i
while pos > 0 and nilai < c[pos - 1]:
c[pos] = c[pos-1]
pos -=1
c[pos] = nilai
return c
Ln: 14 Col: 0
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180120_Algostruk_Modul5_Kegiatan\Tugas2.py
>>> C = sortToC(A, B)
>>> C
[1, 2, 4, 12, 23, 34, 36, 56, 76, 78, 89, 120, 190]
>>>
Ln: 8 Col: 4
ENG 14:31


Tugas3.py - D:\semester 4\praktikum algoritma struktur data\L200180120_Algostruk_Modul5_Ke...
File Edit Format Run Options Window Help
from time import time as detak
from random import shuffle as kocok
def swap(A, p , q):
tmp = A[p]
A[p] = A[q]
A[q] = tmp
def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
posisiYangTerkecil = dariSini
for i in range(dariSini+1, sampaiSini):
if A[i] < A[posisiYangTerkecil]:
posisiYangTerkecil = i
return posisiYangTerkecil
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 = cariPosisiYangTerkecil(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
k = [i for i in range(1, 6001)]
kocok(k)
Ln: 1 Col: 0
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180120_Algostruk_Modul5_Kegiatan\Tugas3.py
bubble: 5.75187 detik
selection: 2.22648 detik
insertion: 2.55355 detik
>>>
Ln: 8 Col: 4
ENG 14:34