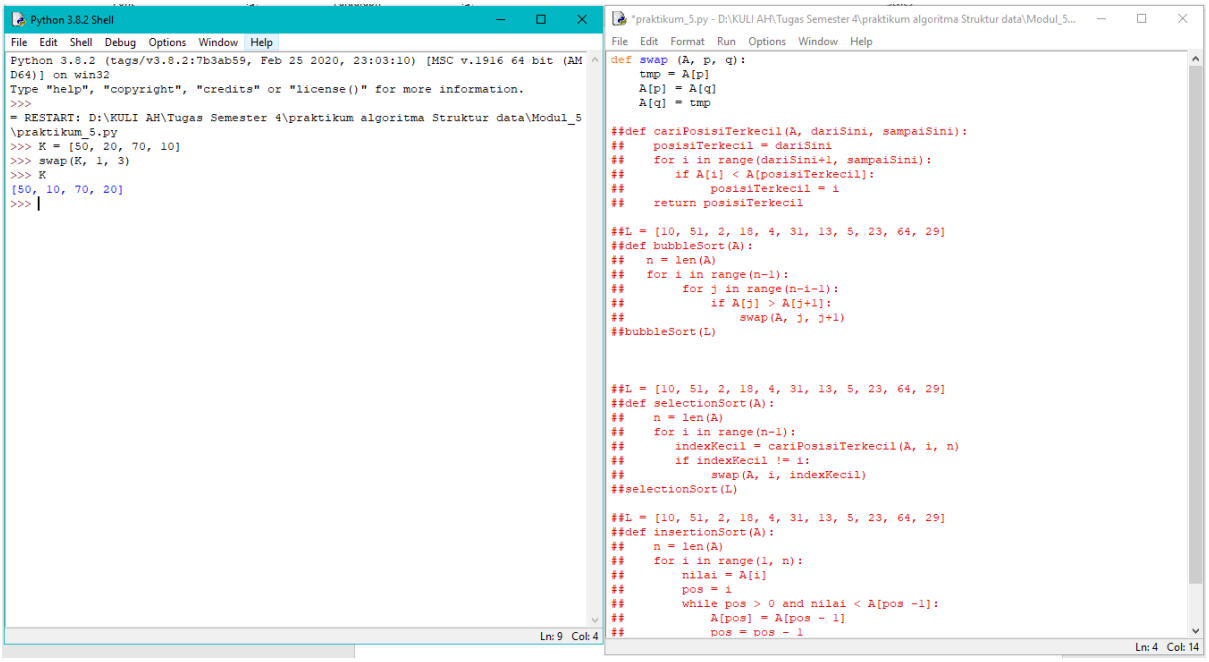
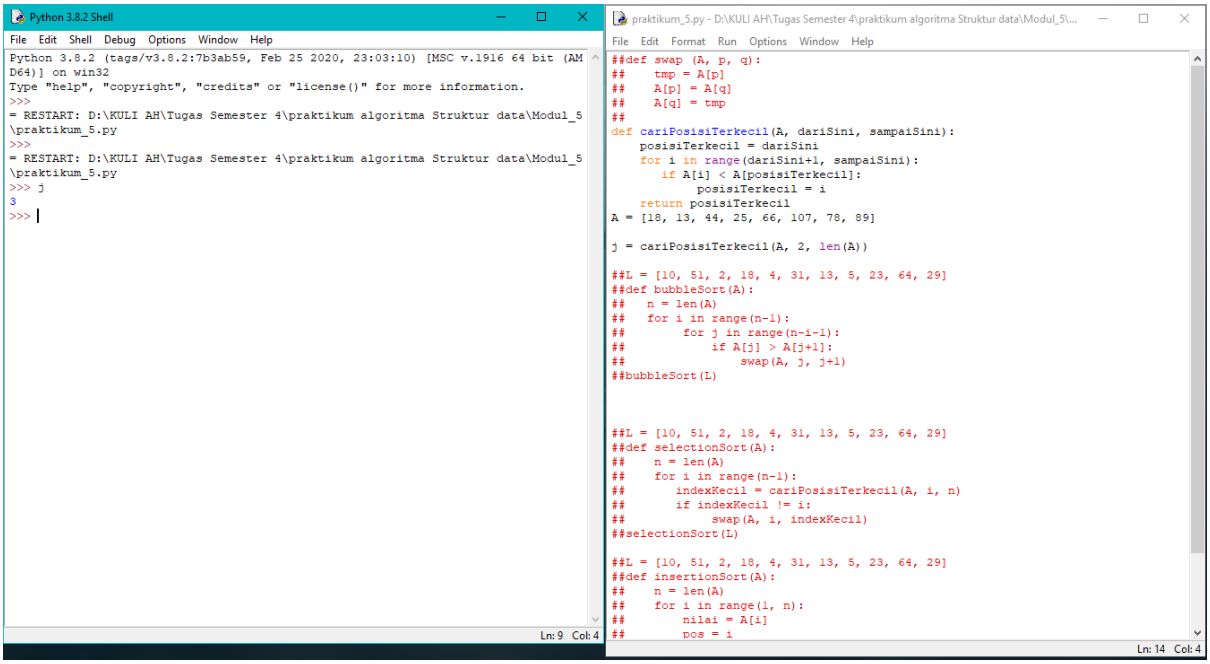
Nama : Yudha Gana Prasetyo Wibowo

Nim : L200180150

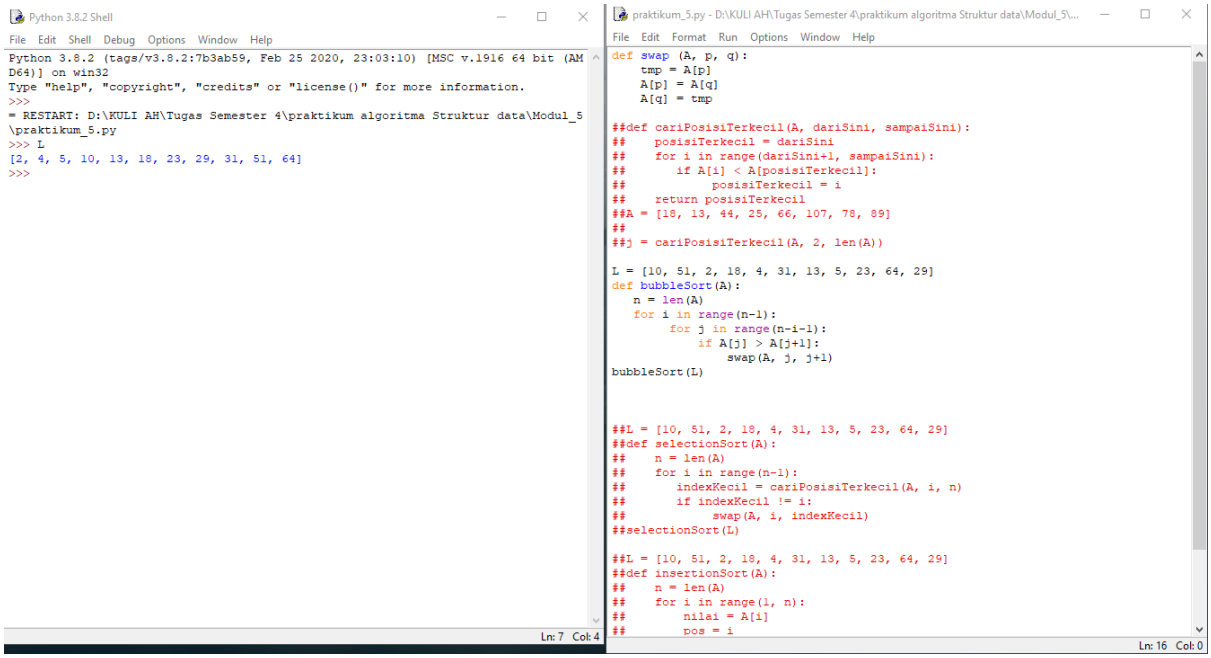
Kelas : F

Praktikum

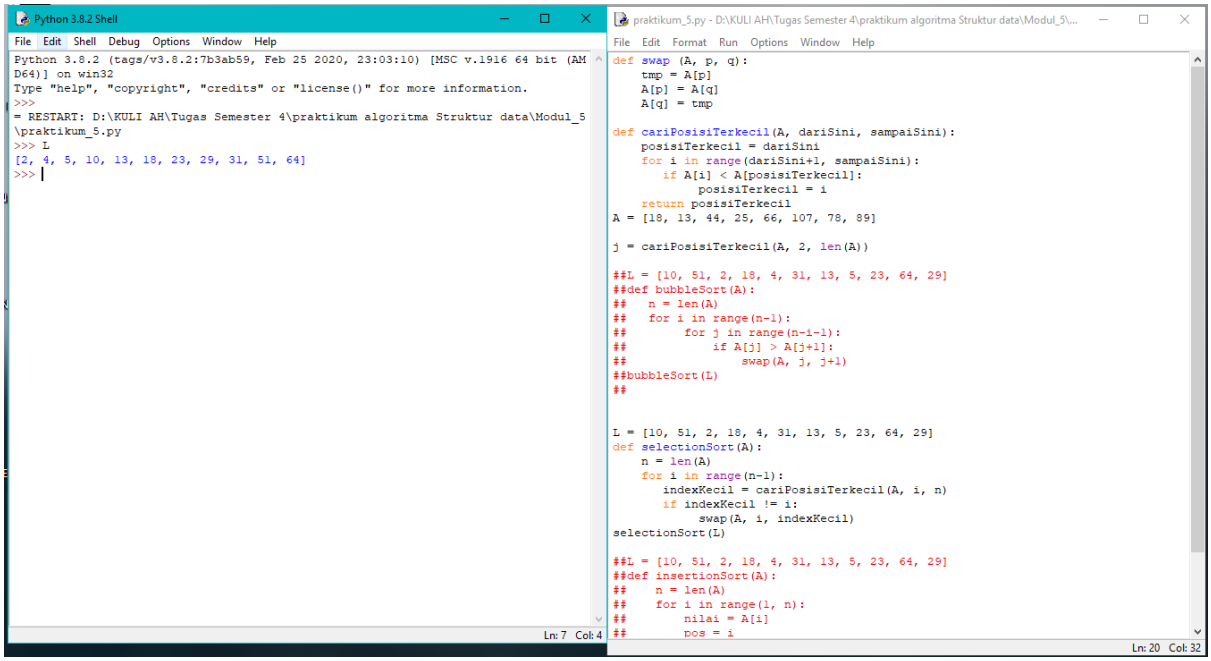




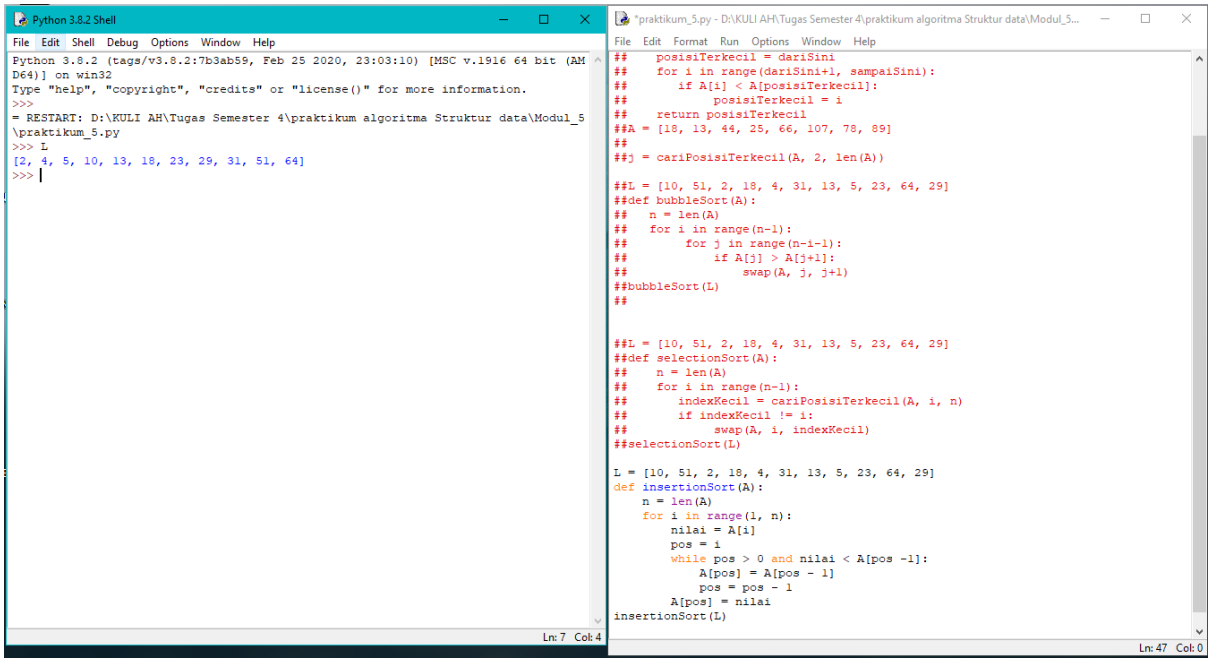
BubbleSort



SelectionSort

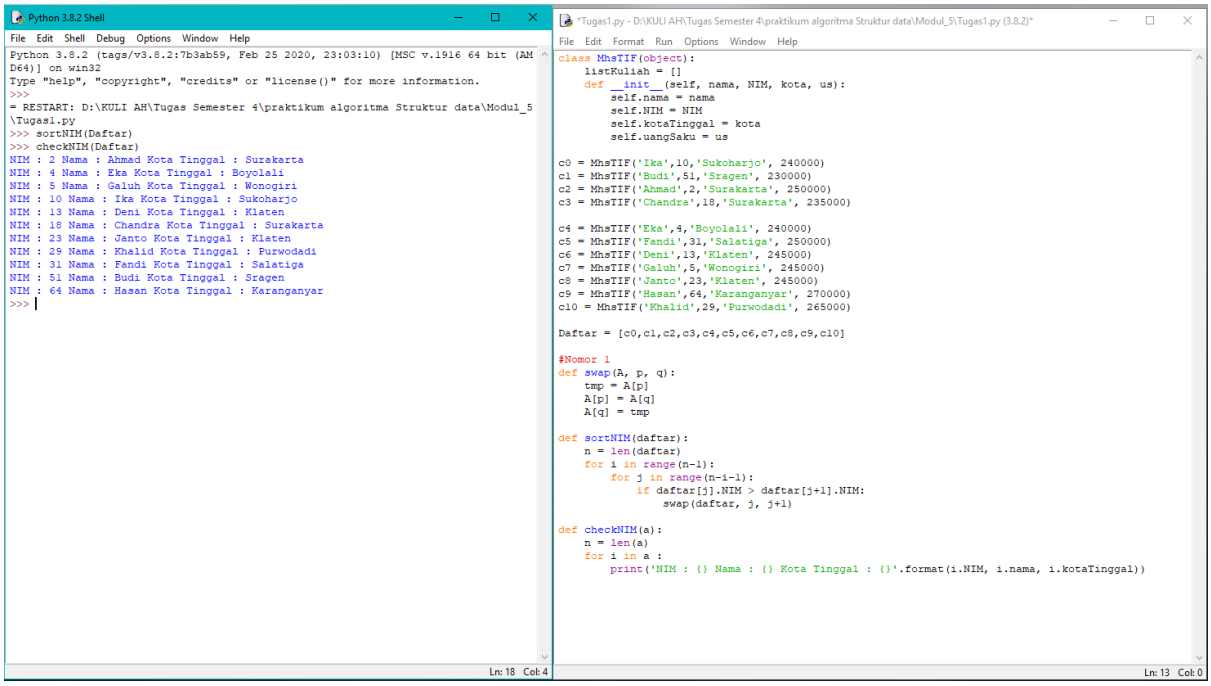


InsertionSort

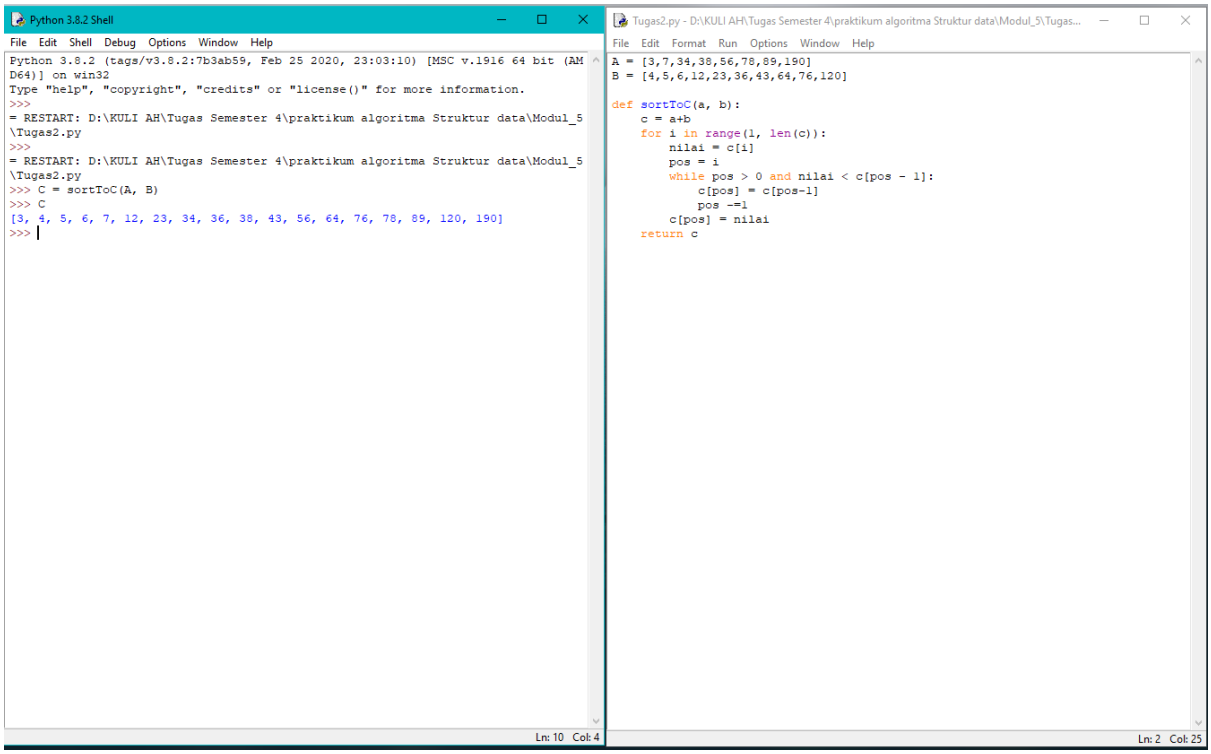


TUGAS

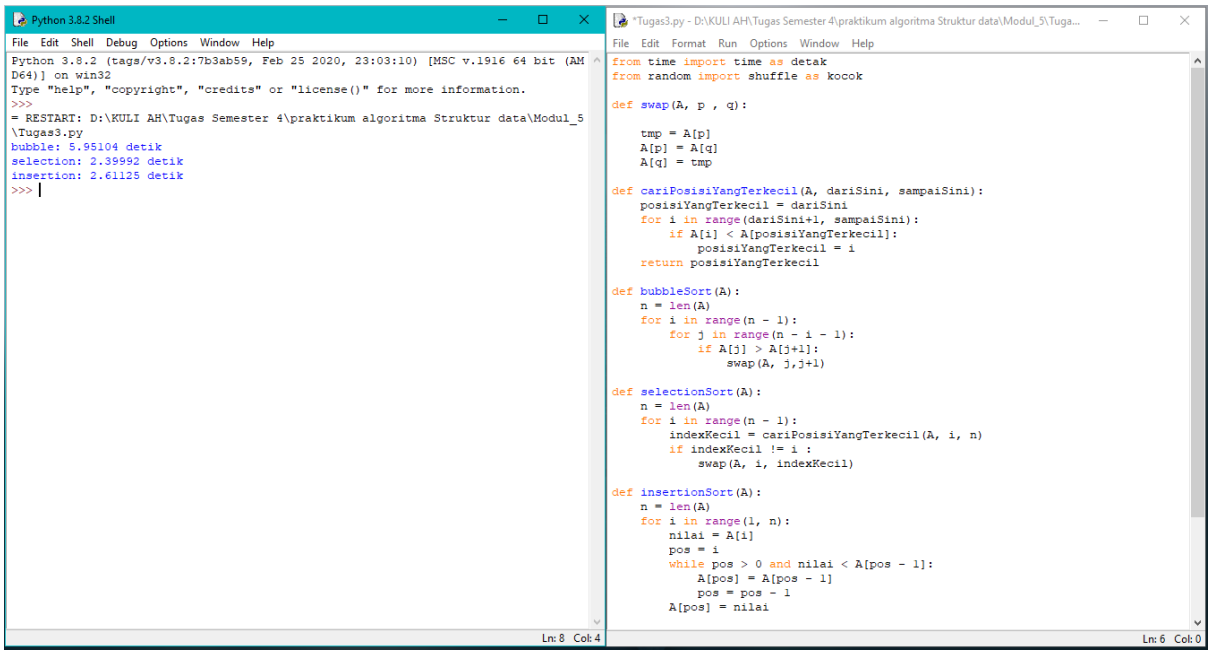
Tugas 1



Tugas 2


Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:\KULI AH\Tugas Semester 4\praktikum algoritma Struktur data\Modul_5\Tugas2.py
>>>
= RESTART: D:\KULI AH\Tugas Semester 4\praktikum algoritma Struktur data\Modul_5\Tugas2.py
>>> C = sortToC(A, B)
>>> C
[3, 4, 5, 6, 7, 12, 23, 34, 36, 38, 43, 56, 64, 76, 78, 89, 120, 190]
>>>
Ln: 10 Col: 4
Tugas2.py - D:\KULI AH\Tugas Semester 4\praktikum algoritma Struktur data\Modul_5\Tugas...
File Edit Format Run Options Window Help
A = [3,7,34,38,56,78,89,190]
B = [4,5,6,12,23,36,43,64,76,120]
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: 2 Col: 25

Tugas 3


Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:\KULI AH\Tugas Semester 4\praktikum algoritma Struktur data\Modul_5\Tugas3.py
bubble: 5.95104 detik
selection: 2.39992 detik
insertion: 2.61125 detik
>>>
Ln: 8 Col: 4
*Tugas3.py - D:\KULI AH\Tugas Semester 4\praktikum algoritma Struktur data\Modul_5\Tuga...
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
Ln: 6 Col: 0