Nama : Bachtiar Nuhri Kurniawan

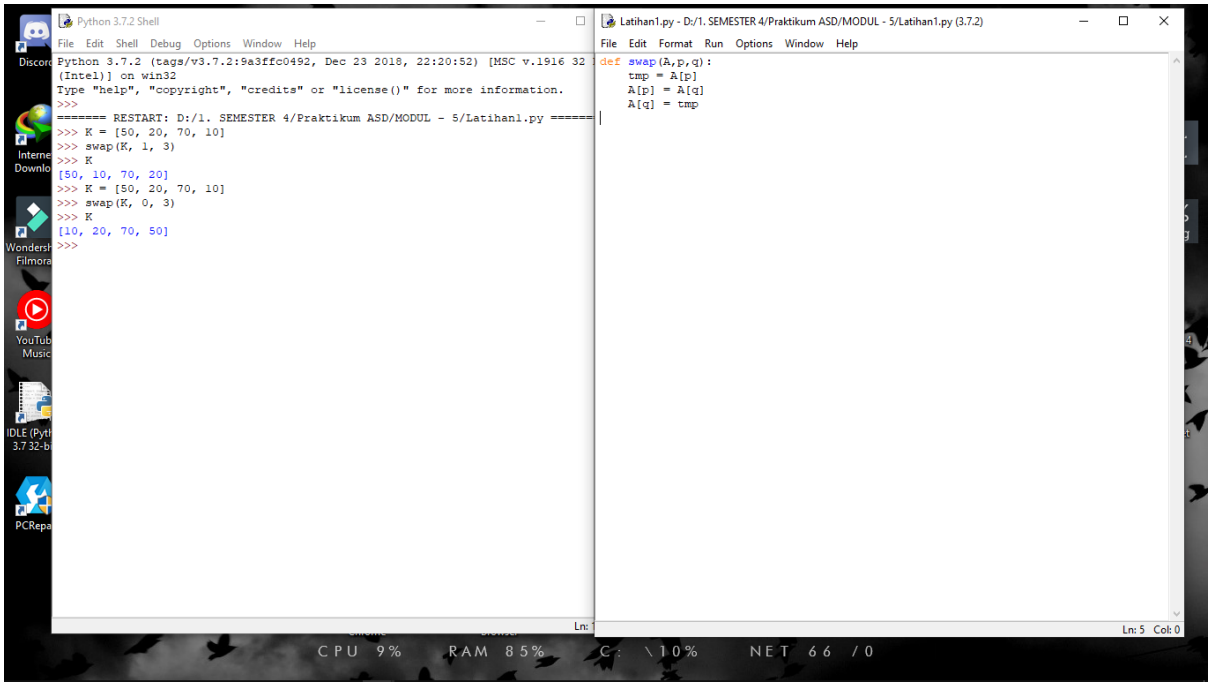
Nim : L200180031

Kelas : B

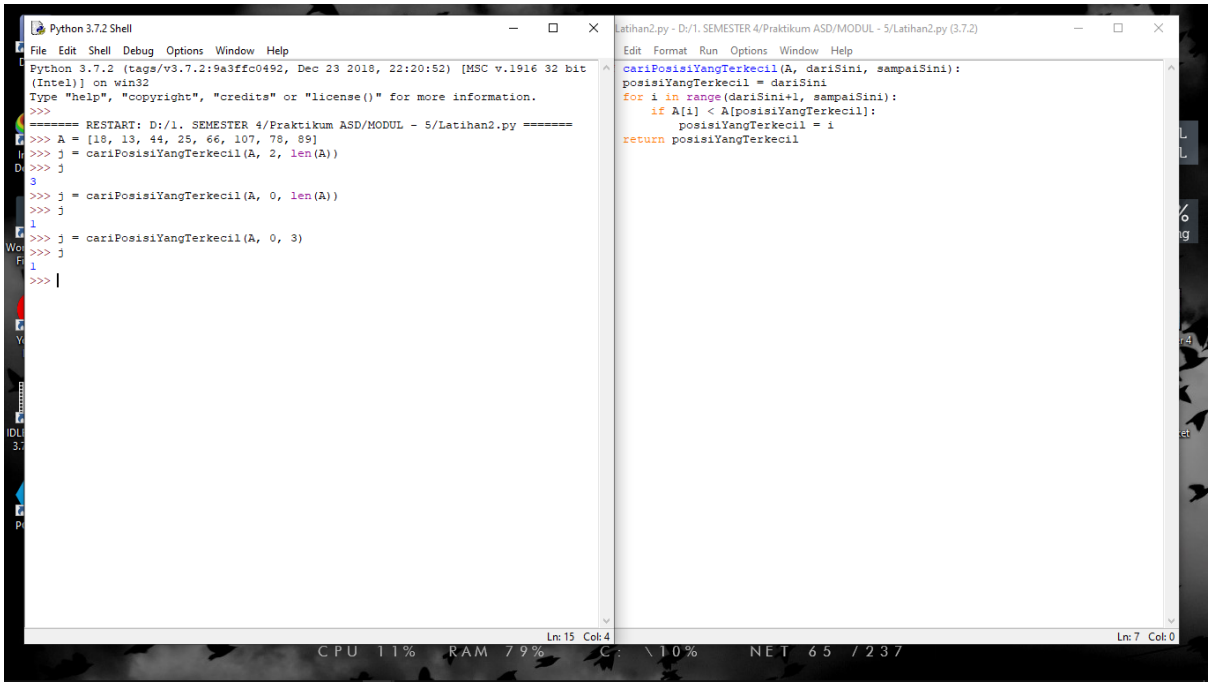
MODUL 5

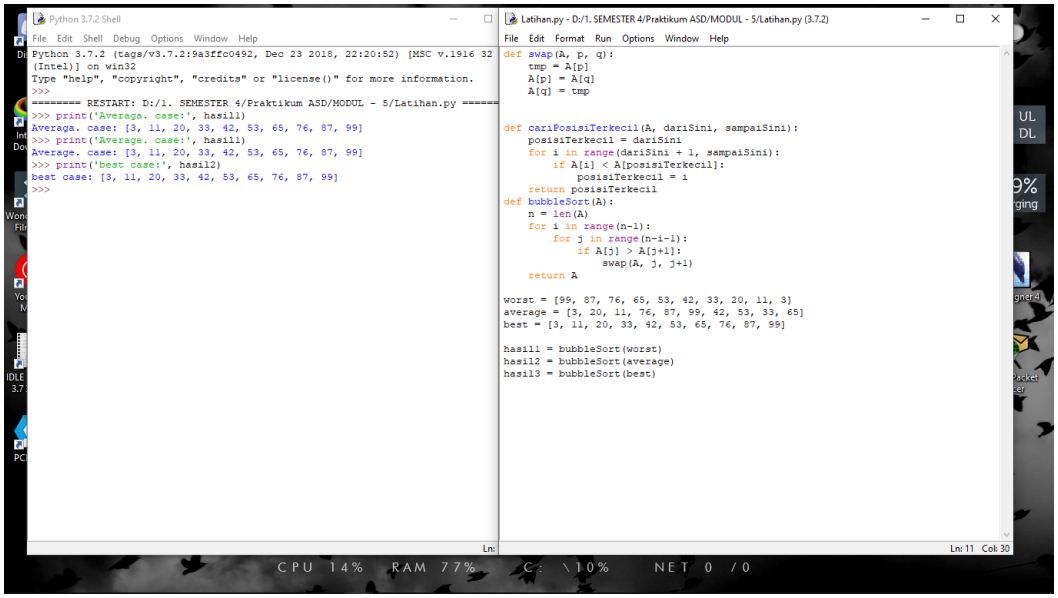
Latihan

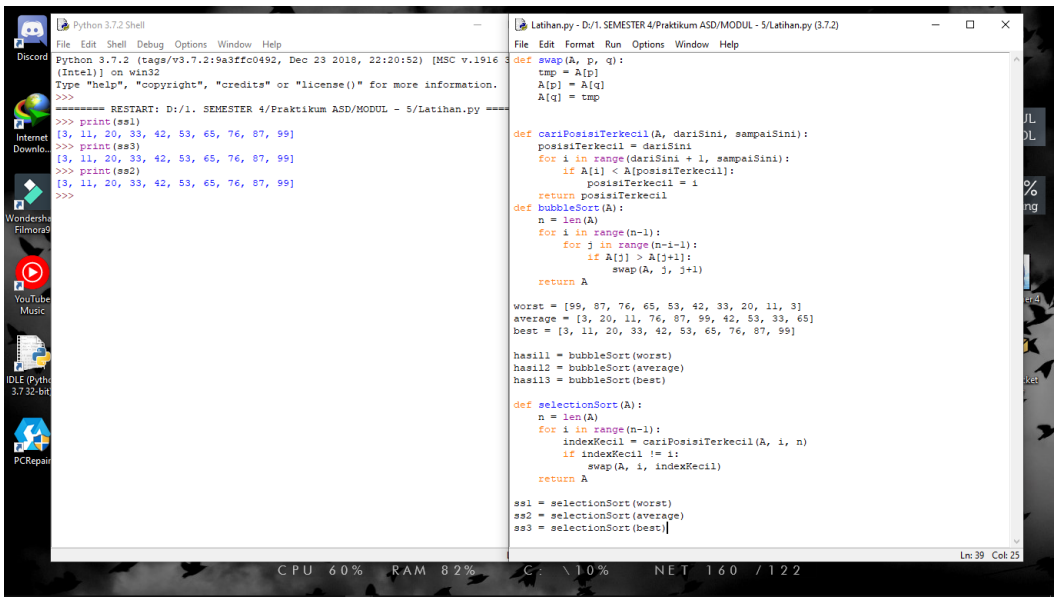
Tukar posisi

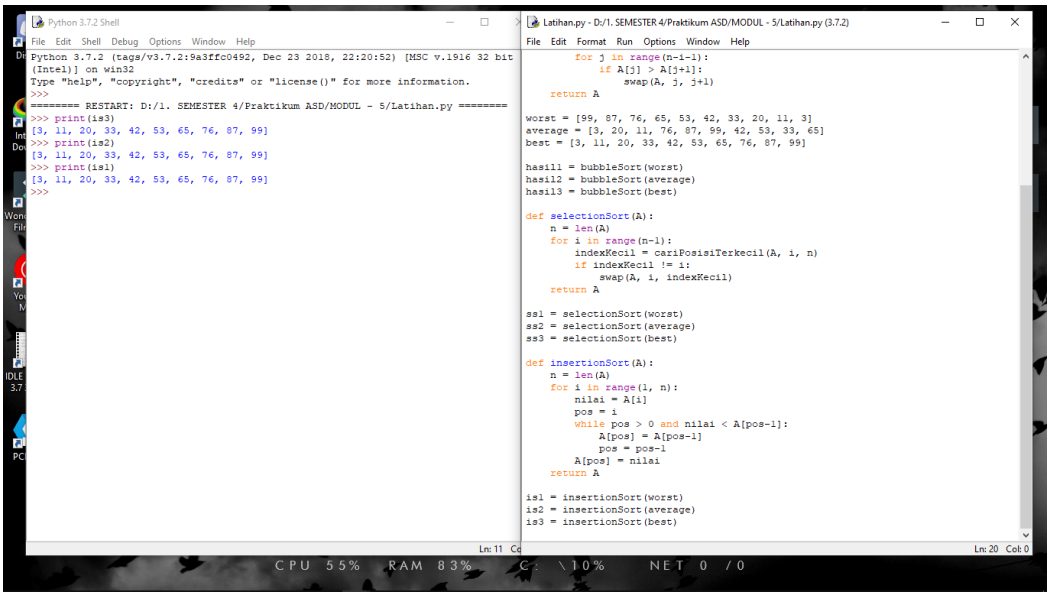


Cari Posisi



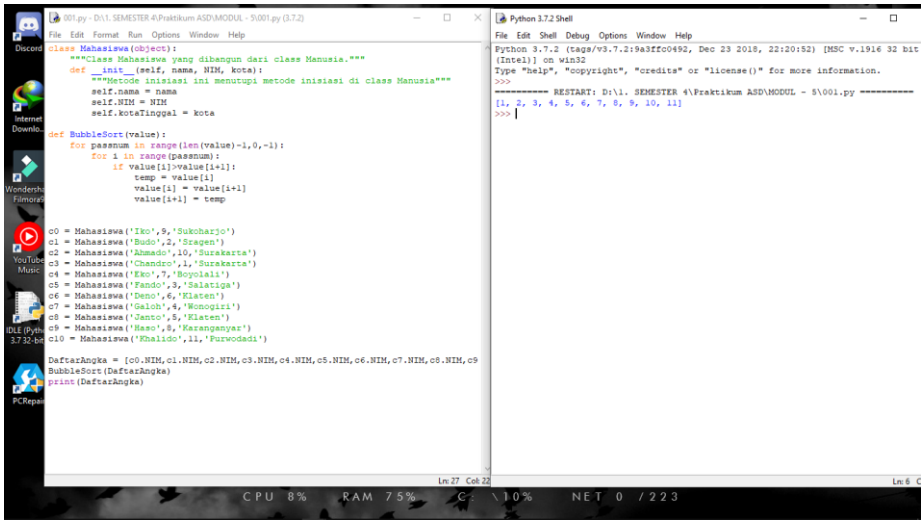

Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: D:/1. SEMESTER 4/Praktikum ASD/MODUL - 5/Latihan.py ========
>>> print('Averaga. case:', hasil1)
Averaga. case: [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print('Average. case:', hasil1)
Average. case: [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print('best case:', hasil2)
best case: [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>>
Ln: 11 Col: 30
Latihan.py - D:/1. SEMESTER 4/Praktikum ASD/MODUL - 5/Latihan.py (3.7.2)
File Edit Format Run Options Window Help
def swap(A, p, q):
tmp = A[p]
A[p] = A[q]
A[q] = tmp
def cariPosisiTerkecil(A, dariSini, sampaiSini):
posisiTerkecil = dariSini
for i in range(dariSini + 1, sampaiSini):
if A[i] < A[posisiTerkecil]:
posisiTerkecil = i
return posisiTerkecil
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)
return A
worst = [99, 87, 76, 65, 53, 42, 33, 20, 11, 3]
average = [3, 20, 11, 76, 87, 99, 42, 53, 33, 65]
best = [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
hasil1 = bubbleSort(worst)
hasil2 = bubbleSort(average)
hasil3 = bubbleSort(best)
CPU 14% RAM 77% C: \10% NET 0 /0


Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: D:/1. SEMESTER 4/Praktikum ASD/MODUL - 5/Latihan.py ========
>>> print(ss1)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print(ss3)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print(ss2)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>>
Ln: 39 Col: 25
Latihan.py - D:/1. SEMESTER 4/Praktikum ASD/MODUL - 5/Latihan.py (3.7.2)
File Edit Format Run Options Window Help
def swap(A, p, q):
tmp = A[p]
A[p] = A[q]
A[q] = tmp
def cariPosisiTerkecil(A, dariSini, sampaiSini):
posisiTerkecil = dariSini
for i in range(dariSini + 1, sampaiSini):
if A[i] < A[posisiTerkecil]:
posisiTerkecil = i
return posisiTerkecil
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)
return A
worst = [99, 87, 76, 65, 53, 42, 33, 20, 11, 3]
average = [3, 20, 11, 76, 87, 99, 42, 53, 33, 65]
best = [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
hasil1 = bubbleSort(worst)
hasil2 = bubbleSort(average)
hasil3 = bubbleSort(best)
def selectionSort(A):
n = len(A)
for i in range(n-1):
indexKecil = cariPosisiTerkecil(A, i, n)
if indexKecil != i:
swap(A, i, indexKecil)
return A
ss1 = selectionSort(worst)
ss2 = selectionSort(average)
ss3 = selectionSort(best)
CPU 60% RAM 82% C: \10% NET 160 /122

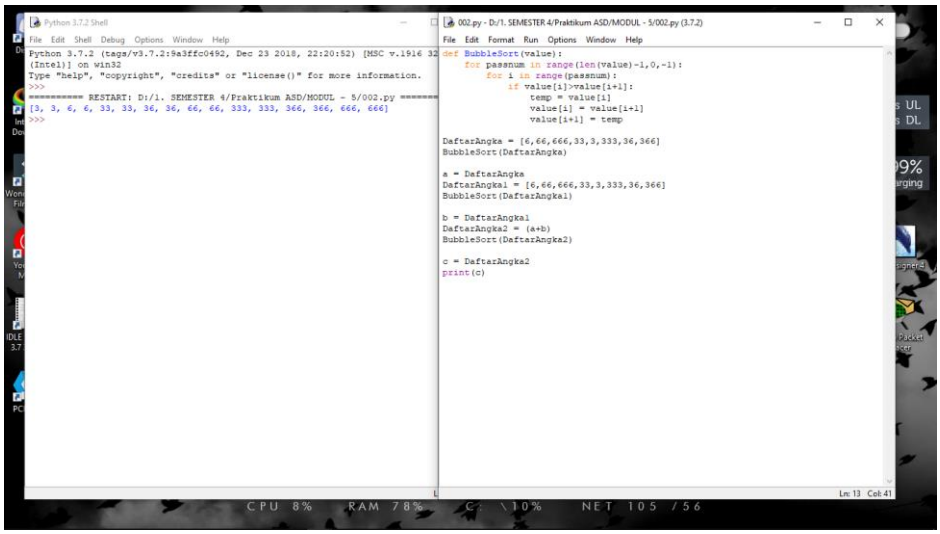

Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: D:/1. SEMESTER 4/Praktikum ASD/MODUL - 5/Latihan.py ========
>>> print(is3)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print(is2)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print(is1)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>>
Ln: 11
Latihan.py - D:/1. SEMESTER 4/Praktikum ASD/MODUL - 5/Latihan.py (3.7.2)
File Edit Format Run Options Window Help
for j in range(n-i-1):
if A[j] > A[j+1]:
swap(A, j, j+1)
return A
worst = [99, 87, 76, 65, 53, 42, 33, 20, 11, 3]
average = [3, 20, 11, 76, 87, 99, 42, 53, 33, 65]
best = [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
hasil1 = bubbleSort(worst)
hasil2 = bubbleSort(average)
hasil3 = bubbleSort(best)
def selectionSort(A):
n = len(A)
for i in range(n-1):
indexKecil = cariPosisiTerkecil(A, i, n)
if indexKecil != i:
swap(A, i, indexKecil)
return A
ss1 = selectionSort(worst)
ss2 = selectionSort(average)
ss3 = selectionSort(best)
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
return A
is1 = insertionSort(worst)
is2 = insertionSort(average)
is3 = insertionSort(best)
Ln: 20 Col: 0
CPU 55% RAM 83% C: \10% NET 0 /0

Tugas

Nomer 1



Nomer 2



Nomer 3