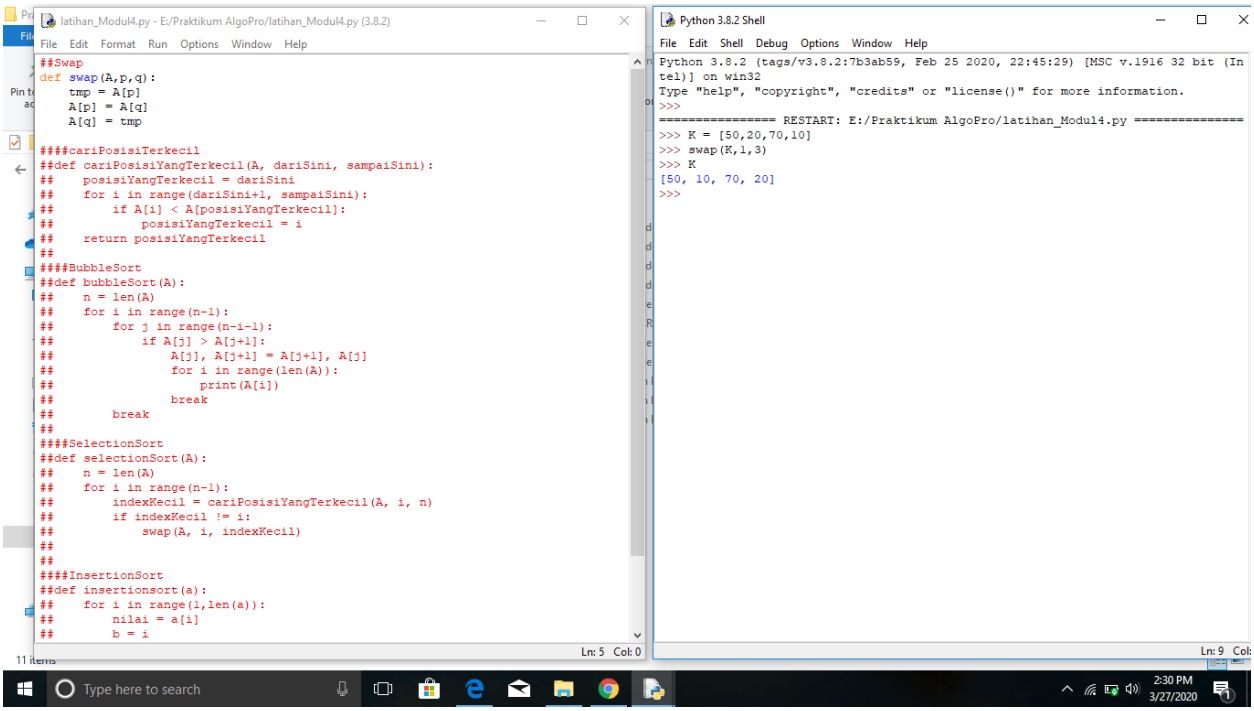
Latihan Modul 5



latihan_Modul4.py - E:/Praktikum AlgoPro/latihan_Modul4.py (3.8.2)

File Edit Format Run Options Window Help

```
##Swap
def swap(A,p,q):
    tmp = A[p]
    A[p] = A[q]
    A[q] = tmp

####cariPosisiTerkecil
##def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
##    posisiYangTerkecil = dariSini
##    for i in range(dariSini+1, sampaiSini):
##        if A[i] < A[posisiYangTerkecil]:
##            posisiYangTerkecil = i
##    return posisiYangTerkecil
##
####BubbleSort
##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]:
##                A[j], A[j+1] = A[j+1], A[j]
##                for i in range(len(A)):
##                    print(A[i])
##                break
##        break
##
####SelectionSort
##def selectionSort(A):
##    n = len(A)
##    for i in range(n-1):
##        indexKecil = cariPosisiYangTerkecil(A, i, n)
##        if indexKecil != i:
##            swap(A, i, indexKecil)
##
##
####InsertionSort
##def insertionsort(a):
##    for i in range(1,len(a)):
##        nilai = a[i]
##        b = i
```

Ln: 5 Col: 0

Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>> K = [50,20,70,10]
>>> swap(K,1,3)
>>> K
[50, 10, 70, 20]
>>>
```

Ln: 9 Col:

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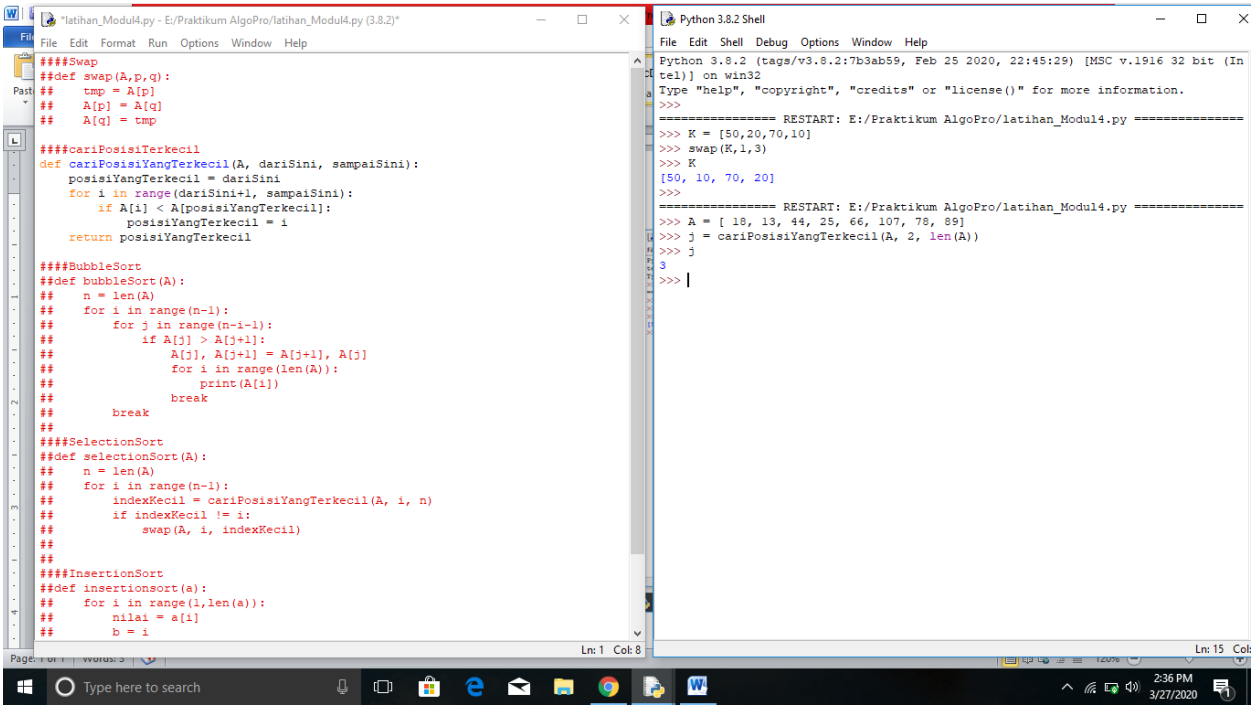
2:30 PM 3/27/2020



latihan_Modul4.py - E:/Praktikum AlgoPro/latihan_Modul4.py (3.8.2)

File Edit Format Run Options Window Help

```
####Swap
##def swap(A,p,q):
##    tmp = A[p]
##    A[p] = A[q]
##    A[q] = tmp

####cariPosisiTerkecil
def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
    posisiYangTerkecil = dariSini
    for i in range(dariSini+1, sampaiSini):
        if A[i] < A[posisiYangTerkecil]:
            posisiYangTerkecil = i
    return posisiYangTerkecil

####BubbleSort
##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]:
##                A[j], A[j+1] = A[j+1], A[j]
##                for i in range(len(A)):
##                    print(A[i])
##                break
##        break
##
####SelectionSort
##def selectionSort(A):
##    n = len(A)
##    for i in range(n-1):
##        indexKecil = cariPosisiYangTerkecil(A, i, n)
##        if indexKecil != i:
##            swap(A, i, indexKecil)
##
##
####InsertionSort
##def insertionsort(a):
##    for i in range(1,len(a)):
##        nilai = a[i]
##        b = i
```

Ln: 1 Col: 8

Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>> K = [50,20,70,10]
>>> swap(K,1,3)
>>> K
[50, 10, 70, 20]
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>> A = [ 18, 13, 44, 25, 66, 107, 78, 89]
>>> j = cariPosisiYangTerkecil(A, 2, len(A))
>>> j
3
>>>
```

Ln: 15 Col:

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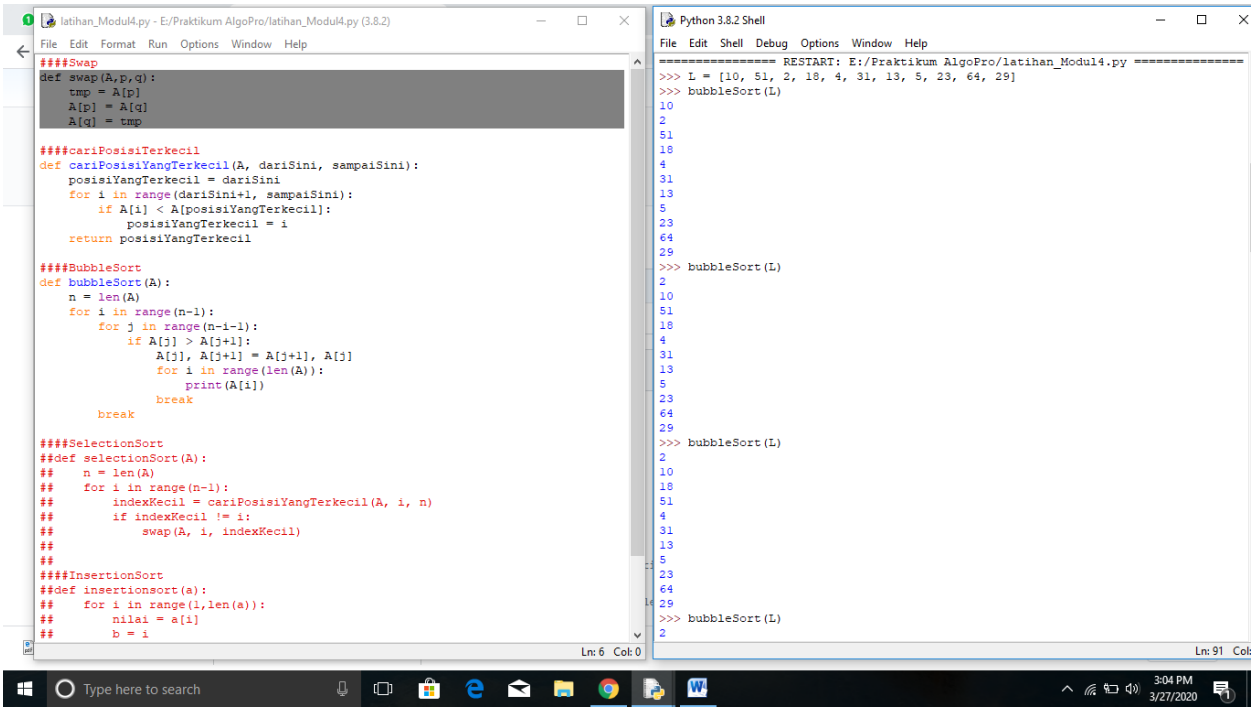
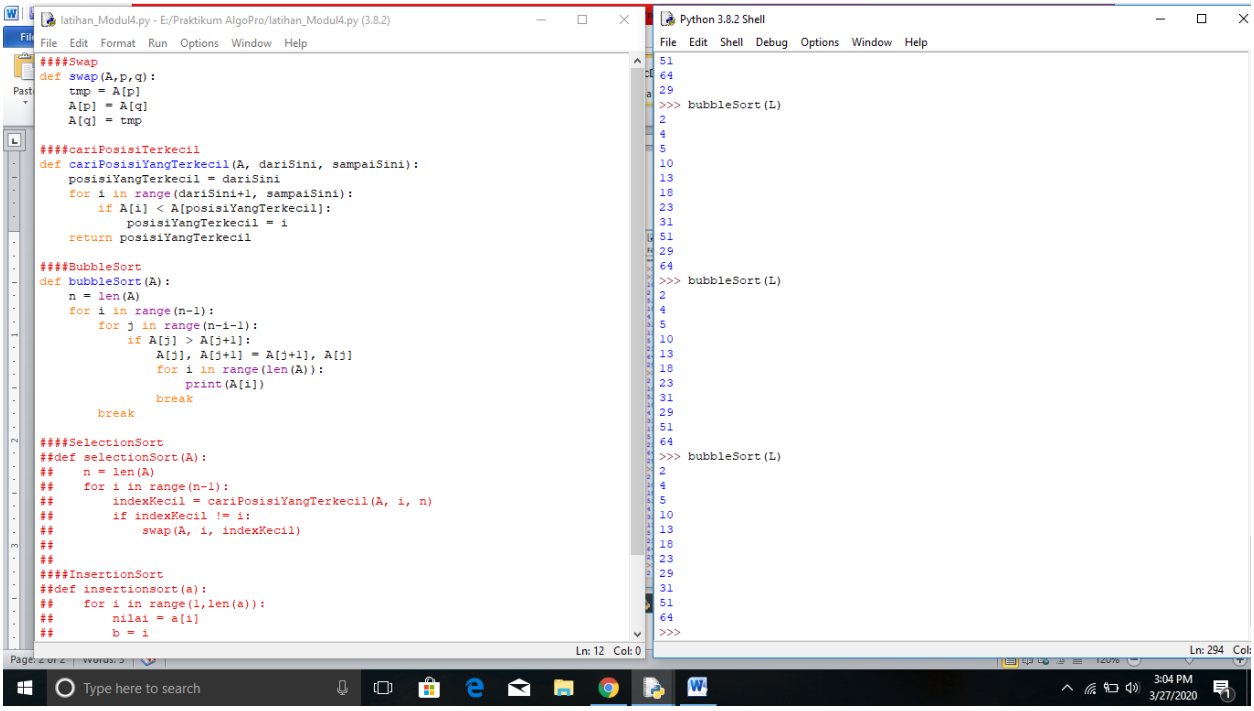
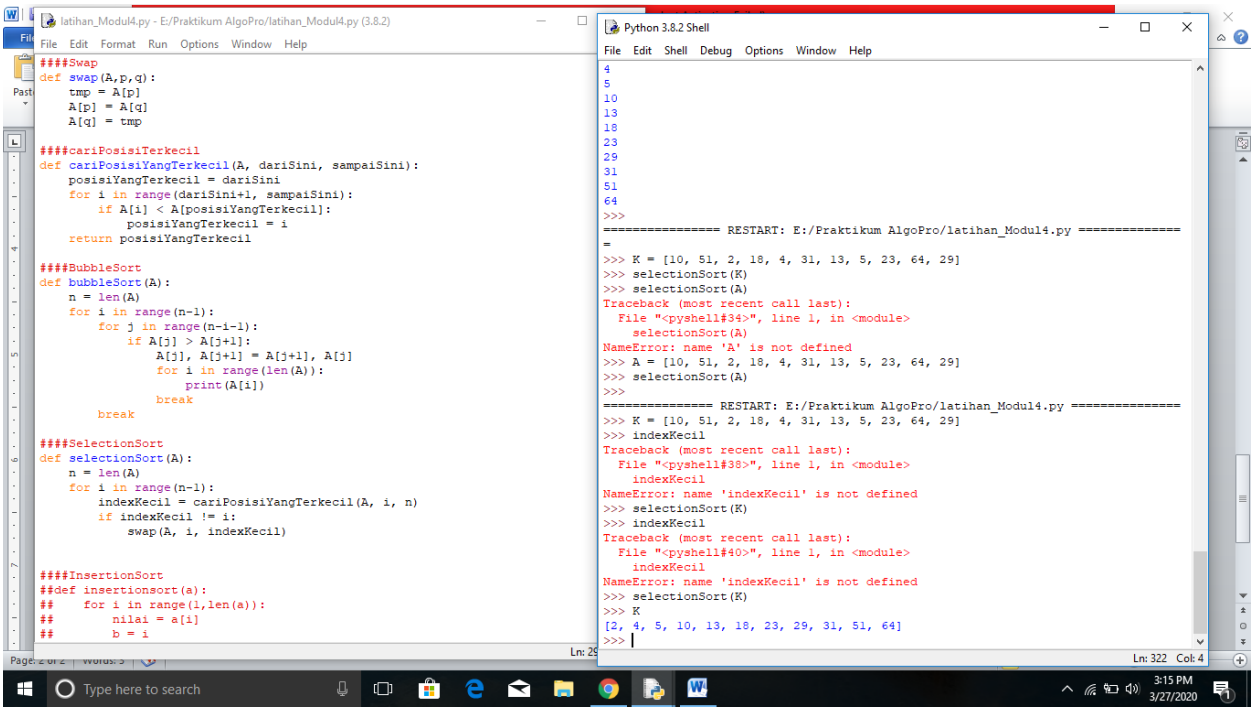
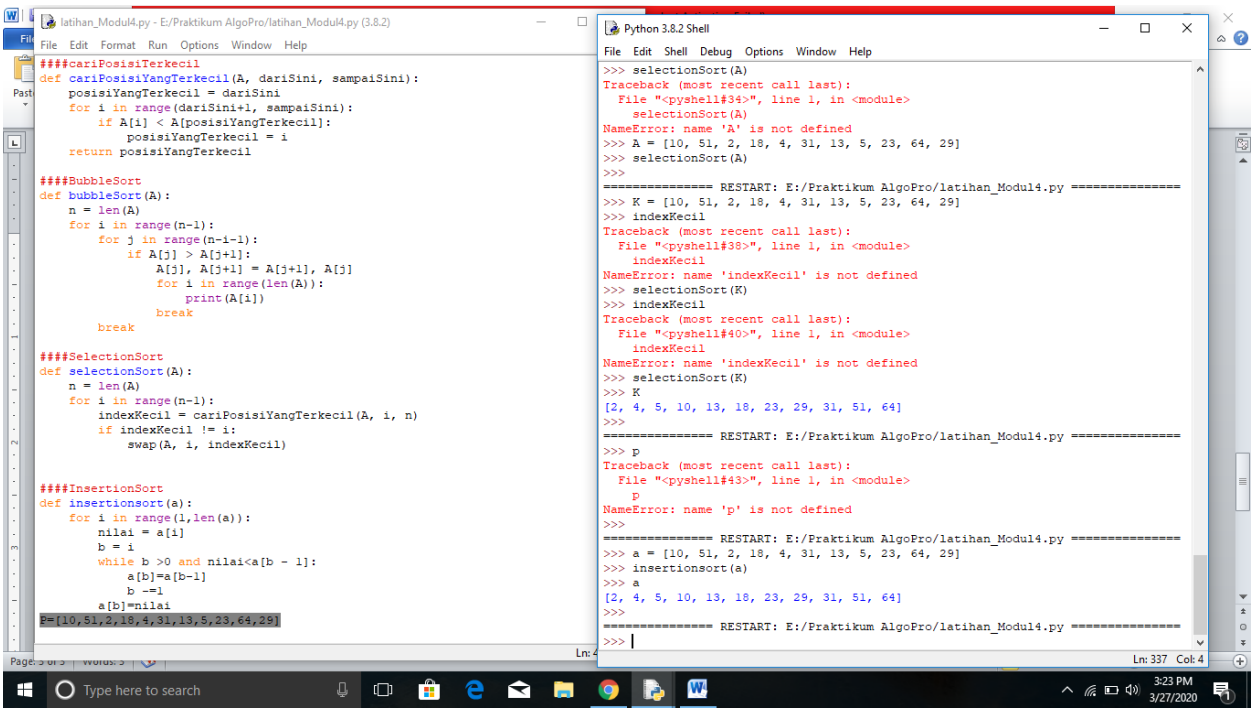
2:36 PM 3/27/2020


latihan_Modul4.py - E:/Praktikum AlgoPro/latihan_Modul4.py (3.8.2)
File Edit Format Run Options Window Help
####Swap
def swap(A,p,q):
tmp = A[p]
A[p] = A[q]
A[q] = tmp
####cariPosisiTerkecil
def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
posisiYangTerkecil = dariSini
for i in range(dariSini+1, sampaiSini):
if A[i] < A[posisiYangTerkecil]:
posisiYangTerkecil = i
return posisiYangTerkecil
####BubbleSort
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]:
A[j], A[j+1] = A[j+1], A[j]
for i in range(len(A)):
print(A[i])
break
break
####SelectionSort
##def selectionSort(A):
n = len(A)
for i in range(n-1):
indexKecil = cariPosisiYangTerkecil(A, i, n)
if indexKecil != i:
swap(A, i, indexKecil)
##
##
####InsertionSort
##def insertionsort(a):
for i in range(1,len(a)):
nilai = a[i]
b = i
Ln: 6 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>> L = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> bubbleSort(L)
10
2
51
18
4
31
13
5
23
64
29
>>> bubbleSort(L)
2
10
51
18
4
31
13
5
23
64
29
>>> bubbleSort(L)
2
10
18
51
4
31
13
5
23
64
29
>>> bubbleSort(L)
2
Ln: 91 Col:
Type here to search
3:04 PM
3/27/2020


latihan_Modul4.py - E:/Praktikum AlgoPro/latihan_Modul4.py (3.8.2)
File Edit Format Run Options Window Help
####Swap
def swap(A,p,q):
tmp = A[p]
A[p] = A[q]
A[q] = tmp
####cariPosisiTerkecil
def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
posisiYangTerkecil = dariSini
for i in range(dariSini+1, sampaiSini):
if A[i] < A[posisiYangTerkecil]:
posisiYangTerkecil = i
return posisiYangTerkecil
####BubbleSort
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]:
A[j], A[j+1] = A[j+1], A[j]
for i in range(len(A)):
print(A[i])
break
break
####SelectionSort
##def selectionSort(A):
n = len(A)
for i in range(n-1):
indexKecil = cariPosisiYangTerkecil(A, i, n)
if indexKecil != i:
swap(A, i, indexKecil)
##
##
####InsertionSort
##def insertionsort(a):
for i in range(1,len(a)):
nilai = a[i]
b = i
Ln: 12 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
51
64
29
>>> bubbleSort(L)
2
4
5
10
13
18
23
31
51
29
64
>>> bubbleSort(L)
2
4
5
10
13
18
23
31
29
51
64
>>> bubbleSort(L)
2
4
5
10
13
18
23
29
31
51
64
>>>
Ln: 294 Col:
Type here to search
3:04 PM
3/27/2020


latihan_Modul4.py - E:/Praktikum AlgoPro/latihan_Modul4.py (3.8.2)
File Edit Format Run Options Window Help
####Swap
def swap(A,p,q):
tmp = A[p]
A[p] = A[q]
A[q] = tmp
####cariPosisiTerkecil
def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
posisiYangTerkecil = dariSini
for i in range(dariSini+1, sampaiSini):
if A[i] < A[posisiYangTerkecil]:
posisiYangTerkecil = i
return posisiYangTerkecil
####BubbleSort
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]:
A[j], A[j+1] = A[j+1], A[j]
for i in range(len(A)):
print(A[i])
break
break
####SelectionSort
def selectionSort(A):
n = len(A)
for i in range(n-1):
indexKecil = cariPosisiYangTerkecil(A, i, n)
if indexKecil != i:
swap(A, i, indexKecil)
####InsertionSort
##def insertionsort(a):
for i in range(1,len(a)):
nilai = a[i]
b = i
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
4
5
10
13
18
23
29
31
51
64
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
=
>>> K = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> selectionSort(K)
>>> selectionSort(A)
Traceback (most recent call last):
File "<pyshell#34>", line 1, in <module>
selectionSort(A)
NameError: name 'A' is not defined
>>> A = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> selectionSort(A)
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>> K = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> indexKecil
Traceback (most recent call last):
File "<pyshell#38>", line 1, in <module>
indexKecil
NameError: name 'indexKecil' is not defined
>>> selectionSort(K)
>>> indexKecil
Traceback (most recent call last):
File "<pyshell#40>", line 1, in <module>
indexKecil
NameError: name 'indexKecil' is not defined
>>> selectionSort(K)
>>> K
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
>>>
Ln: 322 Col: 4
Type here to search
3:15 PM
3/27/2020


latihan_Modul4.py - E:/Praktikum AlgoPro/latihan_Modul4.py (3.8.2)
File Edit Format Run Options Window Help
####cariPosisiTerkecil
def cariPosisiYangTerkecil(A, dariSini, sampaiSini):
posisiYangTerkecil = dariSini
for i in range(dariSini+1, sampaiSini):
if A[i] < A[posisiYangTerkecil]:
posisiYangTerkecil = i
return posisiYangTerkecil
####BubbleSort
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]:
A[j], A[j+1] = A[j+1], A[j]
for i in range(len(A)):
print(A[i])
break
break
####SelectionSort
def selectionSort(A):
n = len(A)
for i in range(n-1):
indexKecil = cariPosisiYangTerkecil(A, i, n)
if indexKecil != i:
swap(A, i, indexKecil)
####InsertionSort
def insertionsort(a):
for i in range(1,len(a)):
nilai = a[i]
b = i
while b >0 and nilai<a[b - 1]:
a[b]=a[b-1]
b -=1
a[b]=nilai
P=[10,51,2,18,4,31,13,5,23,64,29]
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
>>> selectionSort(A)
Traceback (most recent call last):
File "<pyshell#34>", line 1, in <module>
selectionSort(A)
NameError: name 'A' is not defined
>>> A = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> selectionSort(A)
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>> K = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> indexKecil
Traceback (most recent call last):
File "<pyshell#38>", line 1, in <module>
indexKecil
NameError: name 'indexKecil' is not defined
>>> selectionSort(K)
>>> indexKecil
Traceback (most recent call last):
File "<pyshell#40>", line 1, in <module>
indexKecil
NameError: name 'indexKecil' is not defined
>>> selectionSort(K)
>>> K
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>> p
Traceback (most recent call last):
File "<pyshell#43>", line 1, in <module>
p
NameError: name 'p' is not defined
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>> a = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> insertionsort(a)
>>> a
[2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
>>>
========== RESTART: E:/Praktikum AlgoPro/latihan_Modul4.py ==========
>>>
Ln: 337 Col: 4
Type here to search
3:23 PM
3/27/2020