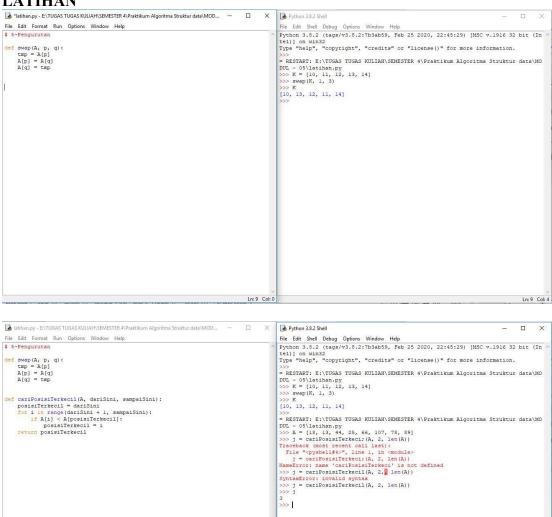
Nama: Dwi Alvian Verry A

NIM : L200180052

Kelas: B

## MODUL 5

## **LATIHAN**



Ln: 14 Col: 25

Ln: 22 Col: 4

```
👪 latihan.py - E\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MOD... — 🔲 🗙 📦 Python 3.8.2 Shell
                                                                                                                                                                                                                                                                                        File Edit Shell Debug Options Window Help

Fython 3.8.2 (tags/v3.8.2:7bSabS9, Feb 25 2020, 22:48:29) [MSC v.1916 32 bit (In / tel)] on wins2

tel)] on wins2

Type "help", "copyright", "credits" or "license()" for more information.
  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 non-lead = dariSini
    for i in non-lead = dariSini
    for i in non-lead = dariSini
    for posisiTerkecil = l
    return posisiTerkecil = l
    re
                                                                                                                                                                                                                                                                                      PRESTART: E:\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MO
  worst = [99, 87, 76, 65, 53, 42, 33, 20, 11, 3]
average = [3, 20, 11, 76, 87, 99, 42, 53, 33, 6
best = [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
                                                                                                                                                                                                                                                                                      >>>
= RESTART: E:\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MO
DUL - 0$\lanklarihan.py
>>> print('Hasil worst case:', hasill)
Hasil worst case: [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print('Hasil avrg. case:', hasil2)
 hasil1 = bubbleSort(worst)
hasil2 = bubbleSort(average)
hasil3 = bubbleSort(best)
                                                                                                                                                                                                                                                                                        SyntaxError: unexpected indent
>>> print('Hasil avrg. case:', hasil2)
                                                                                                                                                                                                                                                                                        SyntamError: unexpected indent
>>> print('Hasil avrg. case:', hasil2)
Hasil avrg. case: (3, 11, 20, 33, 42, 53, 65, 76, 87, 99)
>>> print('Hasil best case:', hasil3)
Hasil best case: (3, 11, 20, 33, 42, 53, 65, 76, 87, 99)
>>>
                                                                                                                                                                                                                                                 Ln: 29 Col: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ln: 36 Col: 4
  atihan.py - E:\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MOD... -
                                                                                                                                                                                                                                                   ×
                                                                                                                                                                                                                                                                                      Python 3.8.2 Shell
  File Edit Format Run Options Window Help
                                                                                                                                                                                                                                                                                        File Edit Shell Debug Options Window Help
[10, 13, 12, 11, 14]
                                                                                                                                                                                                                                                                                      PRESTART: E:\TUGAS YULAH\SEMESTER 4\Praktikum Algoritma Struktur data\MO
UUL - OS\lathan.py
>> A = [18, 13, 44, 25, 66, 107, 78, 89]
>>> j = cartPostaitFrkeci; (A, 2, len(A))
Traceback (most recent call last):
Frie "cpyshell#4", line l, in cmodules
j = cartPostaitFrkeci; (A, 2, len(A))
NameError: name 'cartPostaitFrkeci; (A, 2, len(A))
NameError: name 'cartPostaitFrkeci(A, 2, len(A))
SyntaxError: invalid syntax
>> 1 = cartPostaitFrkeci(A, 2, len(A))
SyntaxError: invalid syntax
>> 1 = cartPostaitFrkeci(A, 2, len(A))
  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):</pre>
                                                                                                                                                                                                                                                                                             yyntaxError: invalid syntax
>> j = cariPosisiTerkecil(A, 2, len(A))
>> j
            retua.
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)
                                                                                                                                                                                                                                                                                      >>>
= RESTART: E:\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MO DUL - 05\latinan.py
>>> print('Hasil worst case: ', hasill)
Hasil Morst case: [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print('Hasil avrg. case: ', hasil2)
 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]
                                                                                                                                                                                                                                                                                        SyntaxError: unexpected indent
>>> print('Hasil avrg. case:', hasil2)
 hasil1 = bubbleSort(worst)
hasil2 = bubbleSort(average)
hasil3 = bubbleSort(best)
                                                                                                                                                                                                                                                                                      SyntaxError: unexpected indent
>>> print('Haeil avrg. case:', hasil2)
Haeil avrg. case: (3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print('Haeil best case:', hasil3)
Haeil best case: (3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
  def selectionSort(A):
             >>> = RESTART: E:\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MO DUL - 05\latihan.py
                                                                                                                                                                                                                                                                                        DUL - 05\lattian.py

>> print(sal)

[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]

>> print(sa2)

[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]

>> print(sa3)

[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
  ss1 = selectionSort(worst)
ss2 = selectionSort(average)
ss3 = selectionSort(best)
                                                                                                                                                                                                                                                   Ln: 41 Col: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ln: 44 Col: 4
  😺 latihan.py - E:\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MOD... — 🔲 🗶 Python 3.8.2 Shell
                                                                                                                                                                                                                                                                                       File Edit Shell Debug Options Window Help
NameError: name 'cariPosisiTerkeci' is not defined
>>> j = cariPosisiTerkecil(A, 2, len(A))
SyntaxError: invalid syntax
>>> j = cariPosisiTerkecil(A, 2, len(A))
>>> j

cariPosisiTerkecil(A, 2, len(A))
>>> j
File Edit Format Run Options Window Help
for i in range(n-1):
    for j in range(n-1-1):
        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]
                                                                                                                                                                                                                                                                                        >>> ERSTART: E:\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MO DUL - 05\latinan.py
> print("Final worst case: ', hasil1)
Hasil worst case: (3, 11, 20, 33, 42, 53, 65, 76, 87, 99)
>>> print("Hasil aveg, case: ', hasil2)
 hasil1 = bubbleSort(worst)
hasil2 = bubbleSort(average)
hasil3 = bubbleSort(best)
                                                                                                                                                                                                                                                                                         SyntaxError: unexpected indent
>>> print('Hasil avrg. case:', hasil2)
           selectionSort(A):
n = len(A)
for 1 in range(n-1):
   indexMecil = carlPosisiTerkecil(A, i, n)
   if indexMecil != 1:
    swap(A, 1, indexMecil)
return A
   def selectionSort(A):
                                                                                                                                                                                                                                                                                       SyntamError: unexpected indent
>>> print("Masil avg. case:", hasil2)
Hasil avg. case: [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print("Masil best case:', hasil3)
Hasil best case: [3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
                                                                                                                                                                                                                                                                                       RESIART: E-VIGGAS TUGAS KULIAH\SEMESIER 4\Praktikum Algoritma Struktur data\NO DUL - 05\lackhan.py >> print(ear) [3, 11, 20, 33, 42, 53, 65, 76, 87, 99] >> print(ear) [3, 11, 20, 33, 42, 53, 65, 76, 87, 99] >> print(ear) [3, 11, 20, 33, 42, 53, 65, 76, 87, 99] >> print(ear) [3, 11, 20, 33, 42, 53, 65, 76, 87, 99] >> print(ear) [3, 11, 20, 33, 42, 53, 65, 76, 87, 99] >>> print(ear) [3, 11, 20, 33, 42, 53, 65, 76, 87, 99] >>>
  ss1 = selectionSort(worst)
ss2 = selectionSort(average)
ss3 = selectionSort(best)
   def insertionSort(A):
              n = len(A)
for i in range(l, n):
    nilai = A[i]
    pos = i
         pos = i
while pos > 0 and nilai < A[pos-1]:
    A[pos] = A[pos-1]
    pos = pos-1
    A[pos] = nilai
zeturn A</pre>
                                                                                                                                                                                                                                                                                       >>>
= RESTART: E:\TUGAS TUGAS KULIAH\SEMESTER 4\Praktikum Algoritma Struktur data\MO
DU. - 05\latinan.py
>>> print(tal)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print(tal)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
>>> print(tal)
>> print(tal)
[3, 11, 20, 33, 42, 53, 65, 76, 87, 99]
 isl = insertionSort(worst)
is2 = insertionSort(average)
is3 = insertionSort(best)
```

Ln: 56 Col: 25

Ln: 52 Col: 4

## **TUGAS**

1.

```
| Python 38.2 Shell | Pyth
```

2.

```
### Action | Comparing | Compa
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