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## **Praktikum Algoritma & Struktur Data**

### **Modul 3**

1.

```
Python 3.7.6 Shell
File Edit Shell Debug Options Window Help
Python 3.7.6 (tags/v3.7.6:43364a7ae0, Dec 19 2019, 00:42:30) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\smt 4\prak algo\modul_4\cob.py =====
>>> a=[[3,1],[2,5]]
>>> b=[[7,5],[6,4]]
>>> c=[[7,5,8],[6,4]]
>>> d=[[7,5,8],[6,4]]
>>> e=[[7,5,8,"a"],[6,4]]
>>> t=pertama()
>>> t.konsisten(a)
matriks konsisten
True
>>> t.konsisten(b)
matriks konsisten
True
>>> t.konsisten(c)
matriks tidak konsisten
True
>>> t.konsisten(e)
matriks tidak konsisten
Traceback (most recent call last):
  File "<pyshe1l#9>", line 1, in <module>
    t.konsisten(e)
  File "D:\smt 4\prak algo\modul_4\cob.py", line 15, in konsisten
    assert isinstance(i,int),"harus integer"
AssertionError: harus integer
>>> print(t.Jml(a,b))
[[10 6]]
>>> print(t.Kali(a,b))
[[27, 19], [44, 30]]
>>> print(t.det(a))
13.0
>>> t.ukuran(a)
'Ukuran Matriks berordo 2 x 2'
>>>
```

2.

```
Python 3.7.6 Shell
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>>>
===== RESTART: D:\smt 4\prak algo\modul_4\cob.py =====
>>> t = kedua()
>>> t.buatMol(3,2)
[[0, 0, 0], [0, 0, 0]]
>>> t.buatmol(3)
[[0, 0, 0], [0, 0, 0], [0, 0, 0]]
>>> t.buatIdentitas(3)
[[1, 0, 0], [0, 1, 0], [0, 0, 1]]
>>> |
```

3.

```
Python 3.7.6 Shell
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>>>
===== RESTART: D:\smt 4\prak algo\modul_4\cob.py =====
>>> a = linkedList(10)
>>> b = linkedList(20)
>>> c = linkedList(30)
>>> d = linkedList(40)
>>> a.next = b
>>> b.next = c
>>> c.next = d
>>> linked = LinkedList()
>>> linked.head = a
>>> linked.tail = d
>>> x = linkedList(13)
>>> linked.tambahDepan(x)
>>> linked.listprint()
[13, 10, 20, 30, 40]
>>> print(linked.head.data)
13
>>> y = linkedList(70)
>>> linked.tambahAkhir(y)
>>> linked.listprint()
[13, 10, 20, 30, 40, 70]
>>> print(linked.tail.data)
70
>>> z = linkedList(33)
>>> linked.tambah(z,2)
>>> linked.listprint()
[13, 33, 10, 20, 30, 40, 70]
>>> print(linked.head.next.data)
33
>>> print("data setelah dihapus")
data setelah dihapus
>>> linked.hapus(1)
>>> linked.listprint()
[13, 10, 20, 30, 40, 70]
>>>
```

4.

```
Python 3.7.6 Shell
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>>>
===== RESTART: D:\smt 4\prak algo\modul_4\cob.py =====
>>> llist = DoublyLinkedList()
>>> llist.aval(7)
menambah pada awal 7
>>> llist.aval(1)
menambah pada awal 1
>>> llist.akhir(6)
menambah pada akhir 6
>>> llist.akhir(4)
menambah pada akhir 4
>>> llist.printList(llist.head)

Dari Depan :
1
7
6
4

Dari Belakang :
4
6
7
1
>>> |
```