Nama : Kurniawan Andika W.

NIM : L200180115

## **TUGAS PRAKTIKUM MODUL 3**

```
Python 3.8.2 Shell
Python 3.8.2 (v3.8.2:7b3ab5921f, Feb 24 2020, 17:52:18)
[Clang 6.0 (clang-600.0.57)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
A = [[1,2],[3,4],[5,6]]
B = [[7,8],[9,10]]
C = [[3,6],[5,2]]
#Nomor 1A
class matriks (object):
    def cetakmatriks(self, matriks):
        for i in matriks:
            print(i)
    def cetkkonsisten(self, matriks):
        if len(matriks[0]) == len(matriks):
            print ("matriks konsisten")
        else:
            print ("matriks tidak konsisten")
                                                                                                                                                                                                        >>>
= RESTART: /Users/ryananindityamanggala/Downloads/L200180123_Algostruk_Modul3/No
                                                                                                                                                                                                        mor1.py
                                                                                                                                                                                                        mor1.py
[1, 2]
[3, 4]
[5, 6]
matriks tidak konsisten
None
[7, 8]
[9, 10]
matriks konsisten
                            print ("matriks tidak konsisten")
                                                                                                                                                                                                        motriks konsisten
None
Bisa Dikalikan
[[25, 28], [57, 64], [89, 100]]
Bisa Dikalikan
[[61, 58], [77, 74]]
x = matriks()
x.cetakmatriks(A)
print(x.cekkonsisten(A))
 y = matriks()
y.cetakmatriks(B)
print(y.cekkonsisten(B))
 #Nomor 1B
def ordo(matriks):
         return ("Ordo matriks = "+str(len(matriks))+" x "+str(len(matriks[0])))
#Nomor 10
def Jumlah(matriks1, matriks2):
   if ordo(matriks1) -- ordo(matriks2):
      for x in range(0, len(matriks1)):
        for y in range(0, len(matriks1[0])):
            print (matriks1[x][y] + matriks2[x][y],' '),
            print()
                   print("Matriks tidak sesuai")
 #Nomor 1D
def kali(m,n):
a = 0
                                                                                                                                                        Ln: 11 Col: 0
                                                                                                                                                                                                                                                                                                                                                                  Ln: 7 Col: 6
```

```
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Python 3.8.2 (v3.8.2:7b3ab5921f, Feb 24 2020, 17:52:18)
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#Nomor 3

class Node:
    def __init__(self, data):
        self.data = data
        self.next = None

class LinkedList:
    def __init__(self):
        self.head = None

def tambahbepan(self, new_data):
        new_node = Node(new_data)
        new_node = Node(new_data)
        new_node = Node(new_data)
        if (self.head = None):
        if (self.head = None):
        self.head = Node(data)
        else:
        current = self.head
                                                                                                                                                                                                                                                  >>>
= RESTART: /Users/ryananindityamanggala/Downloads/L200180123_Algostruk_Modul3/No
                                                                                                                                                                                                                                                  mor1.py
[1, 2]
[3, 4]
                                                                                                                                                                                                                                                [3, 4]
[5, 6]
matriks tidak konsisten
None
[7, 8]
[9, 10]
matriks konsisten
None
Bisa Dikalikan
[125, 28], [57, 64], [89, 100]]
Bisa Dikalikan
[161, 58], [77, 74]]
>>>
           else:
    current = self.head
    while (current.next != None):
        current = current.next
    current.next = Node(data)
    return self.head

def tamba(kself,data,pos):
    node = Node(data)
    if not self.head:
        self.head = node
    elif pos == 0:
        node.next = self.head
        self.head = node
    elif.head = node
else:
                                                                                                                                                                                                                                                  = RESTART: /Users/ryananindityamanggala/Downloads/L200180123_Algostruk_Modul3/No
                                                                                                                                                                                                                                                  mor2.py
>>> buatNol(2,3)
                                                                                                                                                                                                                                                  Membuat matriks 0 dengan ordo 2 x 3
[[0, 0, 0], [0, 0, 0]]
>>> buatIdentitas(4)
                                                                                                                                                                                                                                                  buttlettics(4)
Membuat matriks identitas dengan ordo 4 x 4
[[1, 0, 0, 0], [0, 1, 0, 0], [0, 0, 1, 0], [0, 0, 0, 1]]
                                   prev = Non
                                                                                                                                                                                                                                                  = RESTART: /Users/ryananindityamanggala/Downloads/L200180123_Algostruk_Modul3/No
                                   current = self.head
                                                                                                                                                                                                                                                  mor3.py
12 Apakah ada dalam data?
           current = self.head
current_pos = 0
while (current_pos < pos) and current.next:
    prev = current
    current = current.next
    current_pos += 1
    prev.next = node
    node.next = current
    return self.head
def hapus(self,posisi):
                                                                                                                                                                                                                                                True
90 Apakah ada dalam data?
False
12 31 3 19
>>> |
                                                                                                                                                                                      Ln: 13 Col: 0
                                                                                                                                                                                                                                                                                                                                                                                                                                      Ln: 34 Col: 4
```

```
Python 3.8.2 Shell
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                                                                                                                                                                                                                                                                 Python 3.8.2 Shell
                           self.head = temp.next
                           temp = None
                 return

for i in range(posisi - 1):
    temp = temp.next
    if temp is None:
        break

if temp is None:
                                                                                                                                                                                            >>>
= RESTART: /Users/ryananindityamanggala/Downloads/L200180123_Algostruk_Modul3/No
                                                                                                                                                                                          - RESTART: /Users/ryanammor1.py
[1, 2]
[3, 4]
[5, 6]
matriks tidak konsisten
None
[7, 8]
[9, 10]
matriks konsisten
None
Rice Distaliaten
None
                 if temp.next is None:
        return

next = temp.next.next

temp.next = None

temp.next = next

def cari(self,x):

current = self.head

while current! = None:

if current.data == x:

print(x, "Apakah ada dalam data?")

return True
                                                                                                                                                                                          None
Bisa Dikalikan
[[25, 28], [57, 64], [89, 100]]
Bisa Dikalikan
[[61, 58], [77, 74]]
                 return True

current = current.next

print(x,"Apakah ada dalam data?")
                                                                                                                                                                                            = RESTART: /Users/ryananindityamanggala/Downloads/L200180123_Algostruk_Modul3/No
                                                                                                                                                                                            mor2.py
>>> buatNol(2,3)
        return False
def display(self):
    current = self.head
    while current is not None:
        print(current.data, end = ' ')
        current = current.next
                                                                                                                                                                                          Membuat matriks 0 dengan ordo 2 x 3
[[0, 0, 0], [0, 0, 0]]
>>> buatIdentitas(4)
                                                                                                                                                                                           Membuat matriks identitas dengan ordo 4 x 4
[[1, 0, 0, 0], [0, 1, 0, 0], [0, 0, 1, 0], [0, 0, 0, 1]]
A = LinkedList()
A.tambahDepan(31)
A.tambahDepan(12)
A.tambahDepan(23)
A.tambahAkhir(19)
A.hapus(0)
A.tambah(3,5)
print(A.cari(12))
print(A.cari(90))
A.display()
                                                                                                                                                                                            = RESTART: /Users/ryananindityamanggala/Downloads/L200180123_Algostruk_Modul3/No
                                                                                                                                                                                          mor3.py
12 Apakah ada dalam data?
                                                                                                                                                                                          12 Apakah ada dalam data?
True
90 Apakah ada dalam data?
False
12 31 3 19
>>> |
                                                                                                                                              Ln: 13 Col: 0
                                                                                                                                                                                                                                                                                                                                        Ln: 34 Col: 4
```