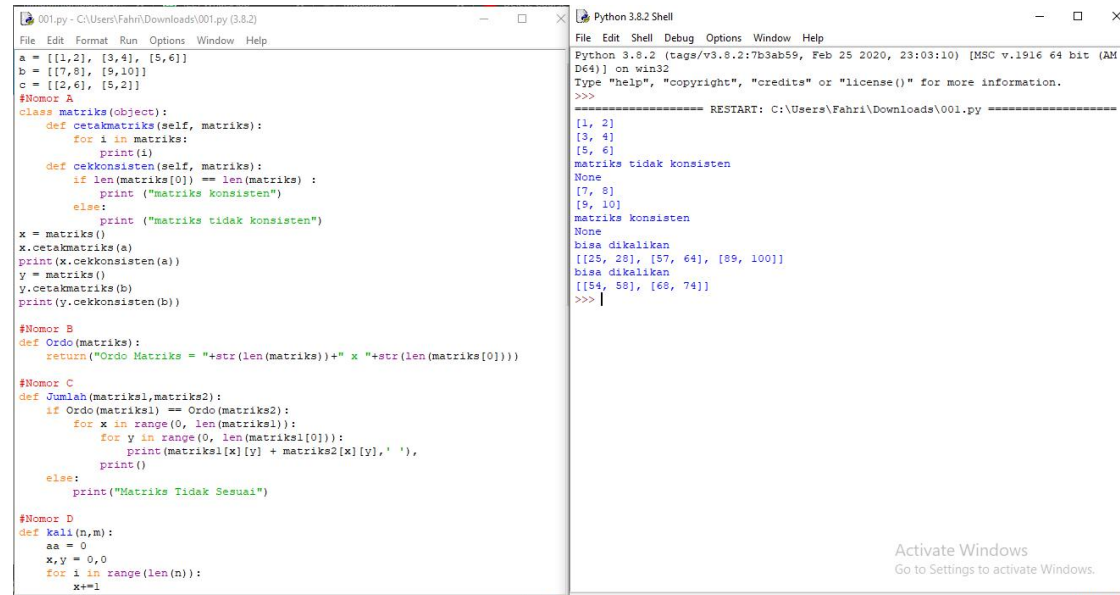


Nama : Fahri AlFandi
NIM : L200180023
Kelas: B

MODUL 3

NO 1



```
001.py - C:\Users\Fahri\Downloads\001.py (3.8.2)
File Edit Format Run Options Window Help

a = [[1,2], [3,4], [5,6]]
b = [[7,8], [9,10]]
c = [[2,6], [5,2]]
#Nomor A
class matriks(object):
    def cetakMatriks(self, matriks):
        for i in matriks:
            print(i)
    def cekKonsisten(self, matriks):
        if len(matriks[0]) == len(matriks[1]):
            print("Matriks Konsisten")
        else:
            print("Matriks tidak konsisten")
x = matriks()
x.cetakMatriks(a)
print(x.cekKonsisten(a))
y = matriks()
y.cetakMatriks(b)
print(y.cekKonsisten(b))

#Nomor B
def Ordo(matriks):
    return("Ordo Matriks = "+str(len(matriks))+ " x " +str(len(matriks[0])))

#Nomor C
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()
    else:
        print("Matriks Tidak Sesuai")

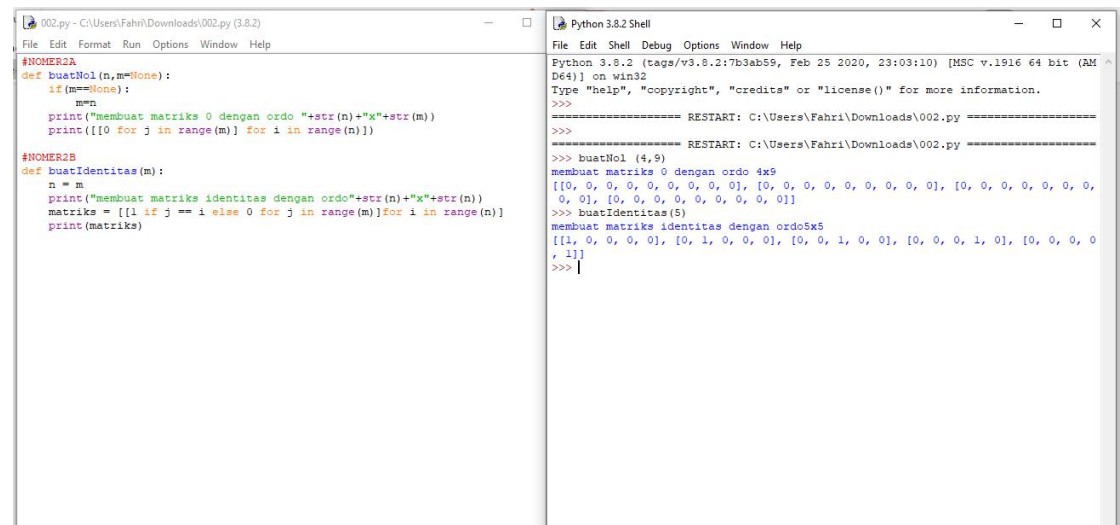
#Nomor D
def kali(n,m):
    aa = 0
    x,y = 0,0
    for i in range(len(n)):
        x+=1

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Fahri\Downloads\001.py =====
>>>
[[1, 2]
[3, 4]
[5, 6]]
Matriks tidak konsisten
None
[[7, 8]
[9, 10]]
Matriks konsisten
None
bisa dikalikan
[[28, 28], [57, 64], [89, 100]]
bisa dikalikan
[[54, 58], [68, 74]]
>>> |

Activate Windows
Go to Settings to activate Windows.
```

NO 2



```
002.py - C:\Users\Fahri\Downloads\002.py (3.8.2)
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#NOMER2A
def buatNol(n,m=None):
    if m==None:
        m=n
    print("membuat matriks 0 dengan ordo "+str(n)+"x"+str(m))
    print([[0 for j in range(m)] for i in range(n)])

#NOMER2B
def buatIdentitas(m):
    n = m
    print("membuat matriks identitas dengan ordo "+str(n)+"x"+str(n))
    matriks = [[1 if j == i else 0 for j in range(m)]for i in range(n)]
    print(matriks)

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Fahri\Downloads\002.py =====
>>>
===== RESTART: C:\Users\Fahri\Downloads\002.py =====
>>> buatNol(4,9)
membuat matriks 0 dengan ordo 4x9
[[0, 0, 0, 0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0, 0]]
>>> buatIdentitas(5)
membuat matriks identitas dengan ordo 5x5
[[1, 0, 0, 0, 0], [0, 1, 0, 0, 0], [0, 0, 1, 0, 0], [0, 0, 0, 1, 0], [0, 0, 0, 0, 1]]
>>> |
```

NO 3

```
003.py - C:\Users\Fahri\Downloads\003.py (3.8.2)
File Edit Format Run Options Window Help

class Node:
    def __init__(self, data):
        self.data = data
        self.next = None
class LinkedList:
    def __init__(self):
        self.head = None
    def tambahDepan(self, new_data):
        new_node = Node(new_data)
        new_node.next = self.head
        self.head = new_node
    def tambahAkhir(self, data):
        if (self.head == None):
            self.head = Node(data)
        else:
            current = self.head
            while (current.next != None):
                current = current.next
            current.next = Node(data)
        return self.head
    def tambah(self, data, pos):
        node = Node(data)
        if not self.head:
            self.head = node
        elif pos==0:
            node.next = self.head
            self.head = node
        else:
            prev = None
            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):
        if self.head == None:
            return

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bi
D64] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Fahri\Downloads\003.py =====
12 Apakah ada dalam data?
True
29 Apakah ada dalam data?
False
2 14 23 12 31 3 9
>>> |

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```

NO 4

```
004.py - C:\Users\Fahri\Downloads\004.py (3.8.2)
File Edit Format Run Options Window Help

class Node:
    def __init__(self, data):
        self.data = data
        self.prev = None
class DoublyLinkedList:
    def __init__(self):
        self.head = None
    def awal(self, new_data):
        print("menambah pada awal", new_data)
        new_node = Node(new_data)
        new_node.next = self.head
        if self.head is not None:
            self.head.prev = new_node
        self.head = new_node
    def akhir(self, new_data):
        print("menambah pada akhir", new_data)
        new_node = Node(new_data)
        new_node.next = None
        if self.head is None:
            new_node.prev = None
            self.head = new_node
        return
        last = self.head
        while (last.next is not None):
            last = last.next
        last.next = new_node
        new_node.prev = last
    def returnList(self, node):
        print("\nDari Depan :")
        while (node is not None):
            print(" % d" % (node.data))
            last = node
            node = node.next
        print("\nDari Belakang :")
        while (last is not None):
            print(" % d" % (last.data))
            last = last.prev

b = DoublyLinkedList()

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bi
D64] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Fahri\Downloads\004.py =====
menambah pada awal 8
menambah pada awal 1
menambah pada akhir 7
menambah pada akhir 3

Dari Depan :
1
8
7
3

Dari Belakang :
3
7
8
1
>>>
===== RESTART: C:\Users\Fahri\Downloads\004.py =====
menambah pada awal 8
menambah pada awal 1
menambah pada akhir 7
menambah pada akhir 3

Dari Depan :
1
8
7
3

Dari Belakang :
3
7
8
1
>>> |

Activate Windows
Go to Settings to activate Windows.
```