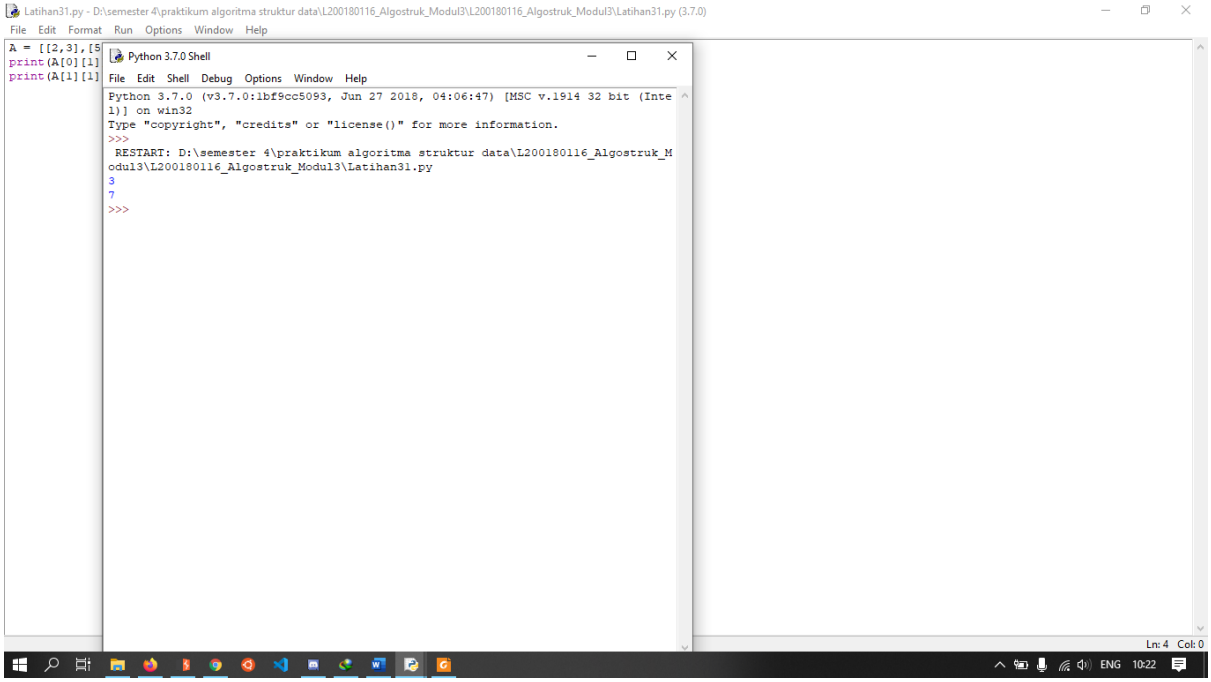
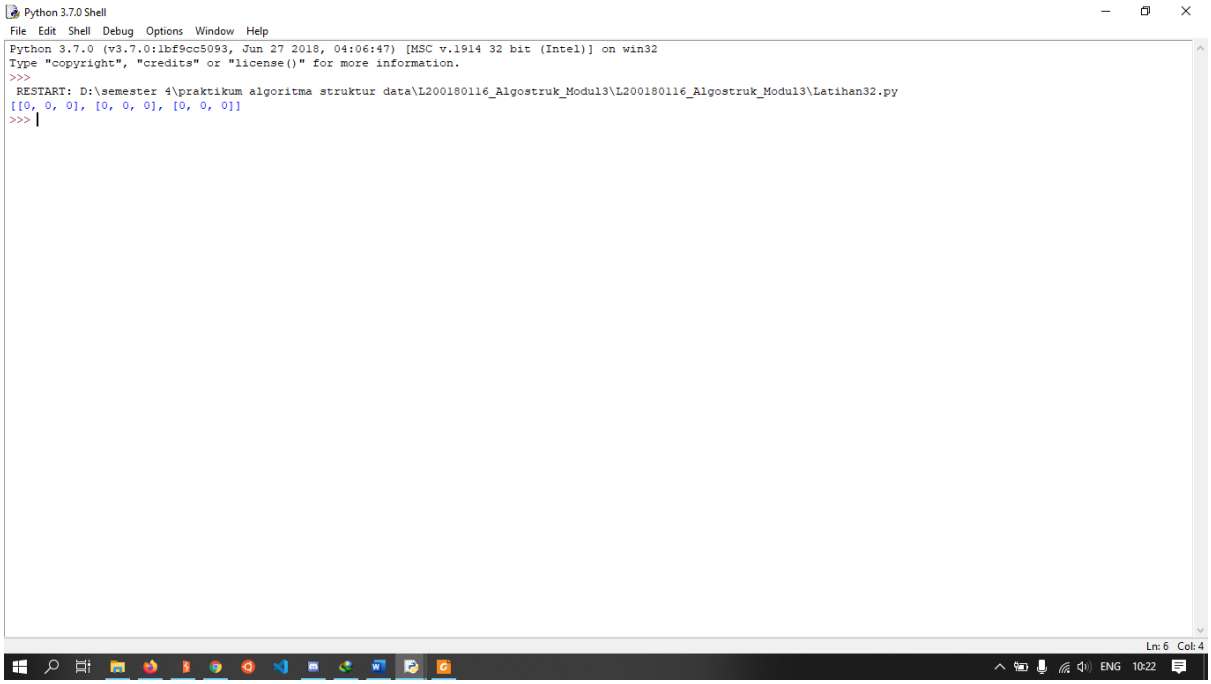
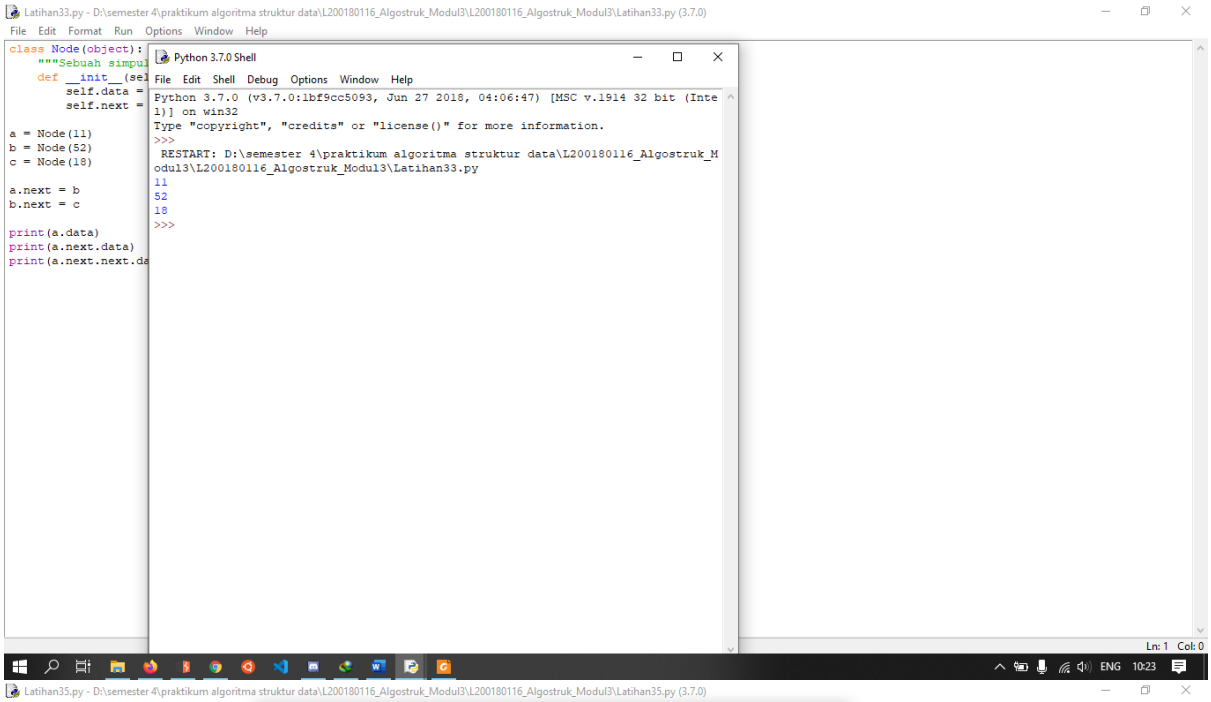
Nama : Maulana Alhif Ikhsan

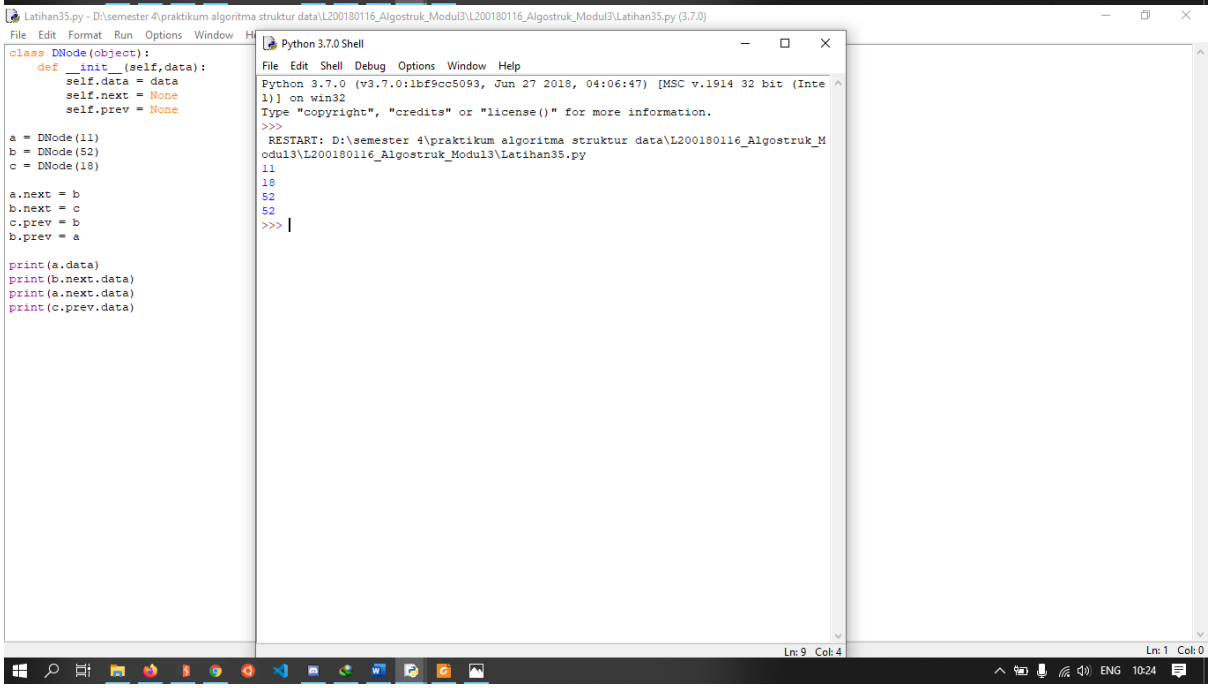
NIM : L200180120

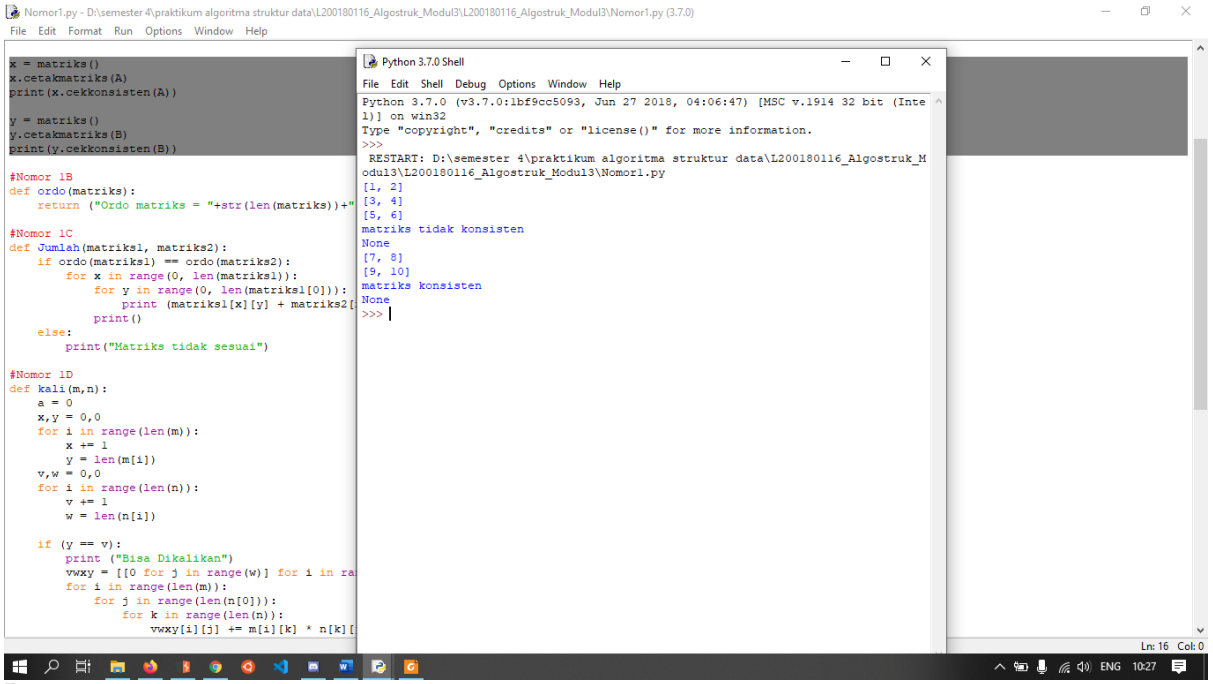
Kelas : E

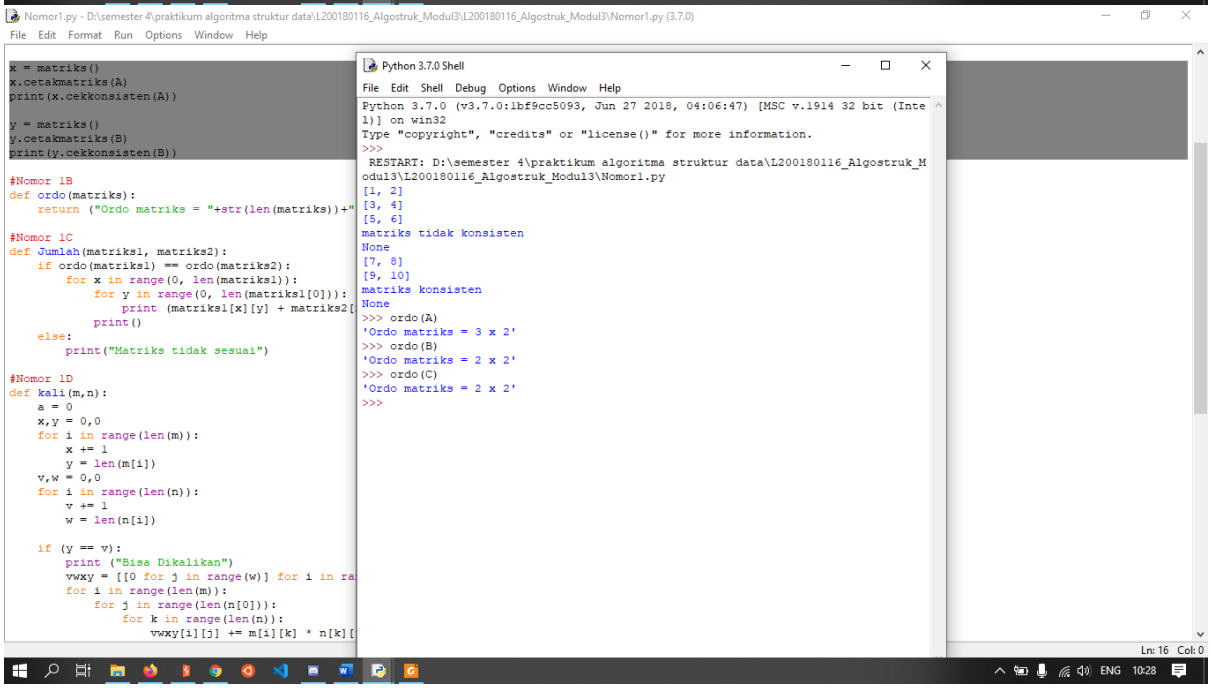


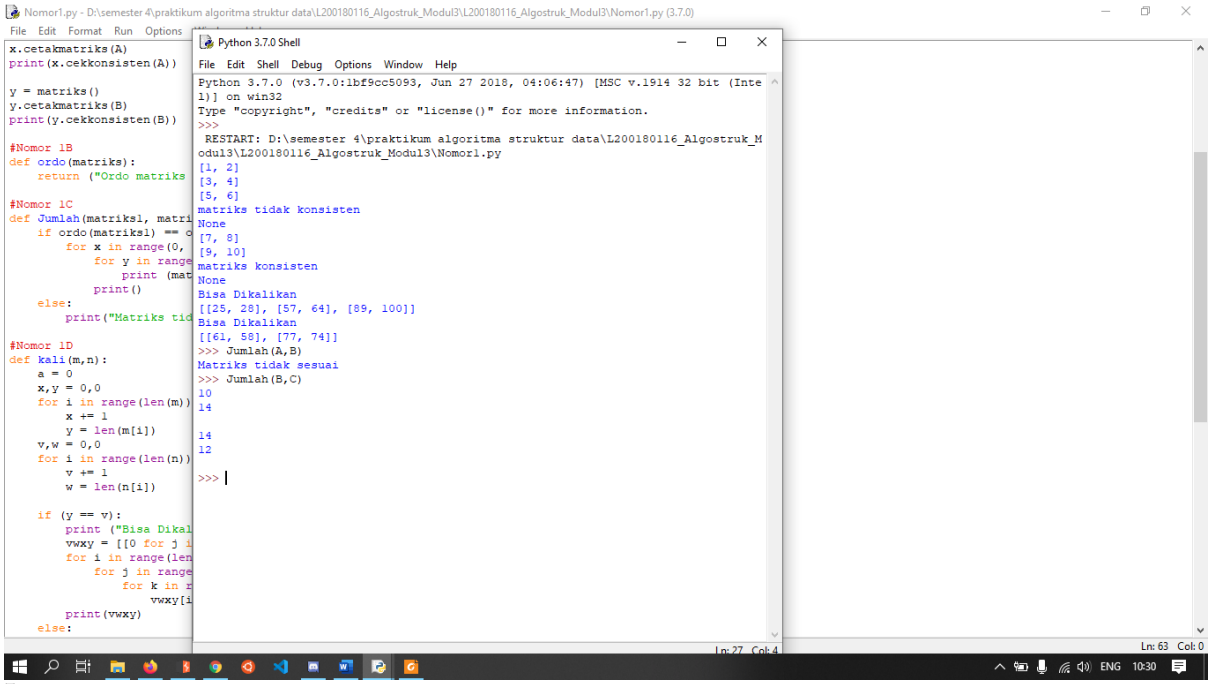


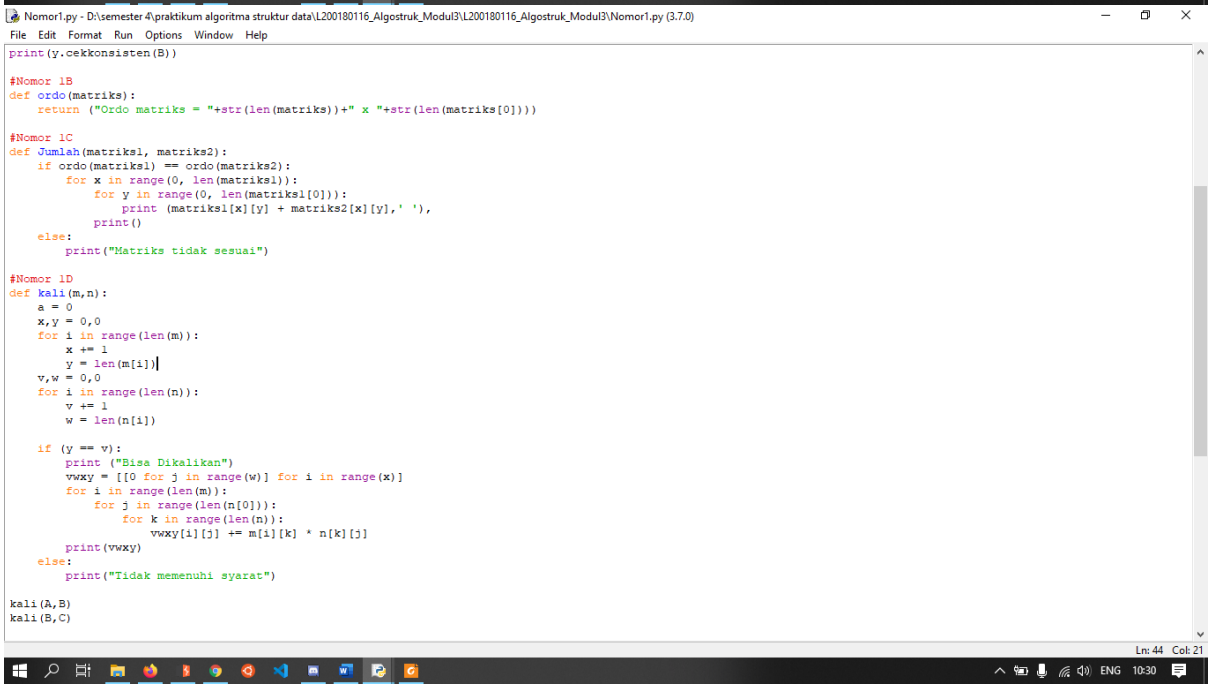

Latihan33.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Latihan33.py (3.7.0)
File Edit Format Run Options Window Help
class Node(object):
"""Sebuah simpul
def __init__(sel
self.data =
self.next =
a = Node(11)
b = Node(52)
c = Node(18)
a.next = b
b.next = c
print(a.data)
print(a.next.data)
print(a.next.next.da
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Latihan33.py
11
52
18
>>>
Ln: 1 Col: 0
ENG 10:23

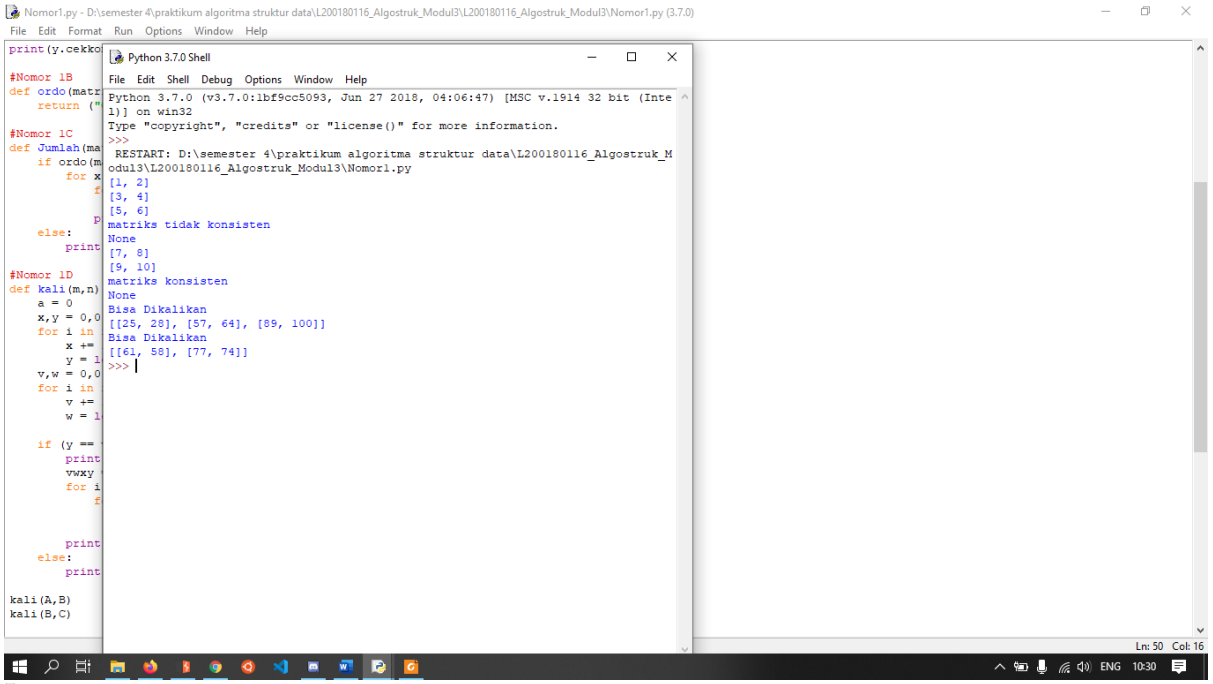

Latihan35.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Latihan35.py (3.7.0)
File Edit Format Run Options Window
class DNode(object):
def __init__(self,data):
self.data = data
self.next = None
self.prev = None
a = DNode(11)
b = DNode(52)
c = DNode(18)
a.next = b
b.next = c
c.prev = b
b.prev = a
print(a.data)
print(b.next.data)
print(a.next.data)
print(c.prev.data)
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Latihan35.py
11
16
52
52
>>>
Ln: 9 Col: 4
Ln: 1 Col: 0
ENG 10:24

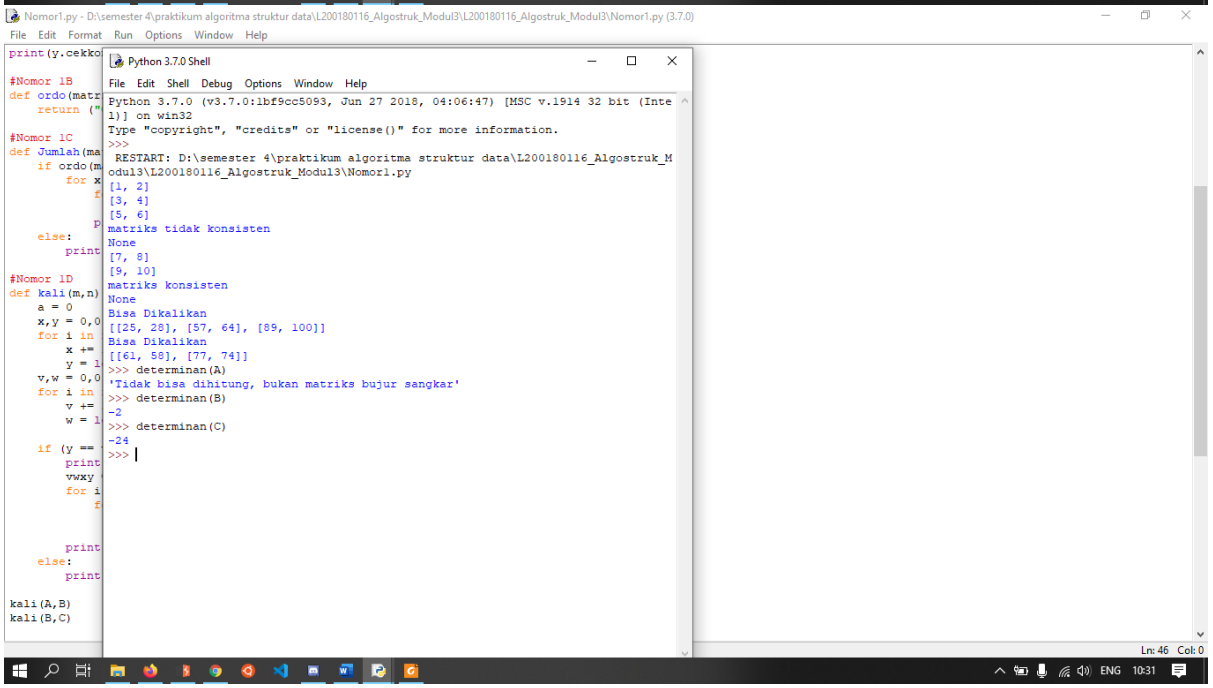

Nomor1.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor1.py (3.7.0)
File Edit Format Run Options Window Help
x = matriks()
x.cetakmatriks(A)
print(x.cekkonsisten(A))
y = matriks()
y.cetakmatriks(B)
print(y.cekkonsisten(B))
#Nomor 1B
def ordo(matriks):
return ("Ordo matriks = "+str(len(matriks))+"
#Nomor 1C
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[
print()
else:
print("Matriks tidak sesuai")
#Nomor 1D
def kali(m,n):
a = 0
x,y = 0,0
for i in range(len(m)):
x += 1
y = len(m[i])
v,w = 0,0
for i in range(len(n)):
v += 1
w = len(n[i])
if (y == v):
print ("Bisa Dikalikan")
vwxy = [[0 for j in range(w)] for i in ra
for i in range(len(m)):
for j in range(len(n[0])):
for k in range(len(n)):
vwxy[i][j] += m[i][k] * n[k][
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Nomor1.py
[1, 2]
[3, 4]
[5, 6]
matriks tidak konsisten
None
[7, 8]
[9, 10]
matriks konsisten
None
>>>
Ln: 16 Col: 0
ENG 10:27

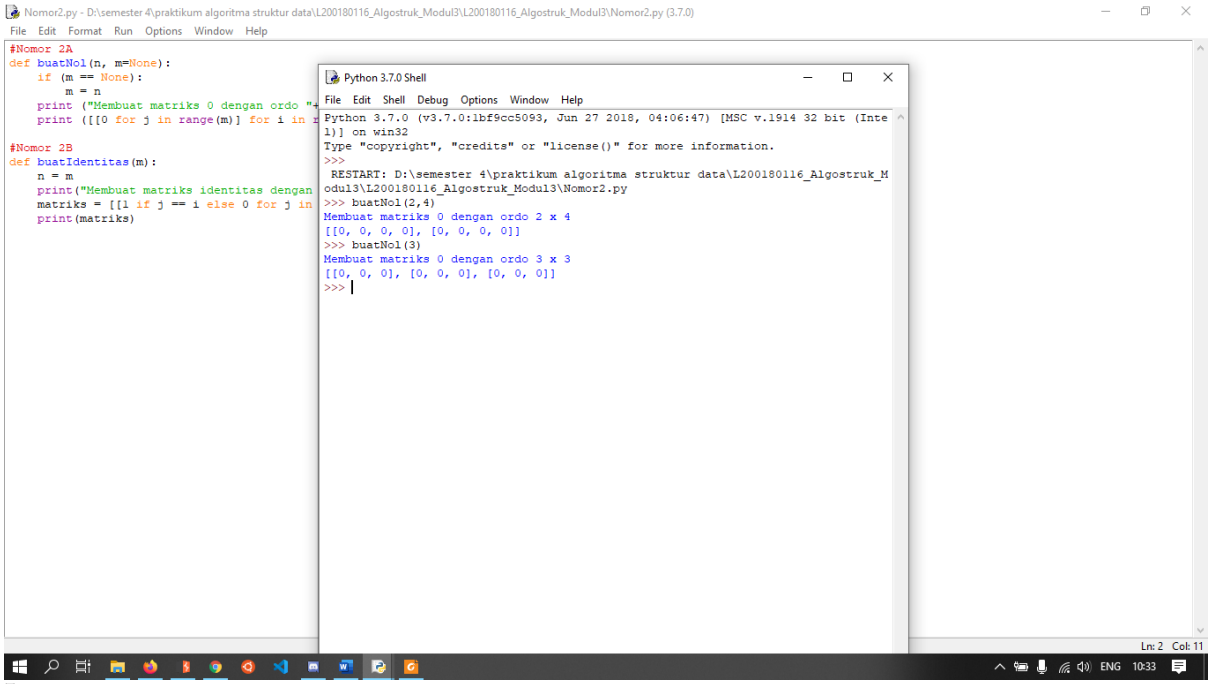

Nomor1.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor1.py (3.7.0)
File Edit Format Run Options Window Help
x = matriks()
x.cetakmatriks(A)
print(x.cekkonsisten(A))
y = matriks()
y.cetakmatriks(B)
print(y.cekkonsisten(B))
#Nomor 1B
def ordo(matriks):
return ("Ordo matriks = "+str(len(matriks))+"
#Nomor 1C
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[
print()
else:
print("Matriks tidak sesuai")
#Nomor 1D
def kali(m,n):
a = 0
x,y = 0,0
for i in range(len(m)):
x += 1
y = len(m[i])
v,w = 0,0
for i in range(len(n)):
v += 1
w = len(n[i])
if (y == v):
print ("Bisa Dikalikan")
vwxy = [[0 for j in range(w)] for i in ra
for i in range(len(m)):
for j in range(len(n[0])):
for k in range(len(n)):
vwxy[i][j] += m[i][k] * n[k][
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Nomor1.py
[1, 2]
[3, 4]
[5, 6]
matriks tidak konsisten
None
[7, 8]
[9, 10]
matriks konsisten
None
>>> ordo(A)
'Ordo matriks = 3 x 2'
>>> ordo(B)
'Ordo matriks = 2 x 2'
>>> ordo(C)
'Ordo matriks = 2 x 2'
>>>
Ln: 16 Col: 0
ENG 10:28

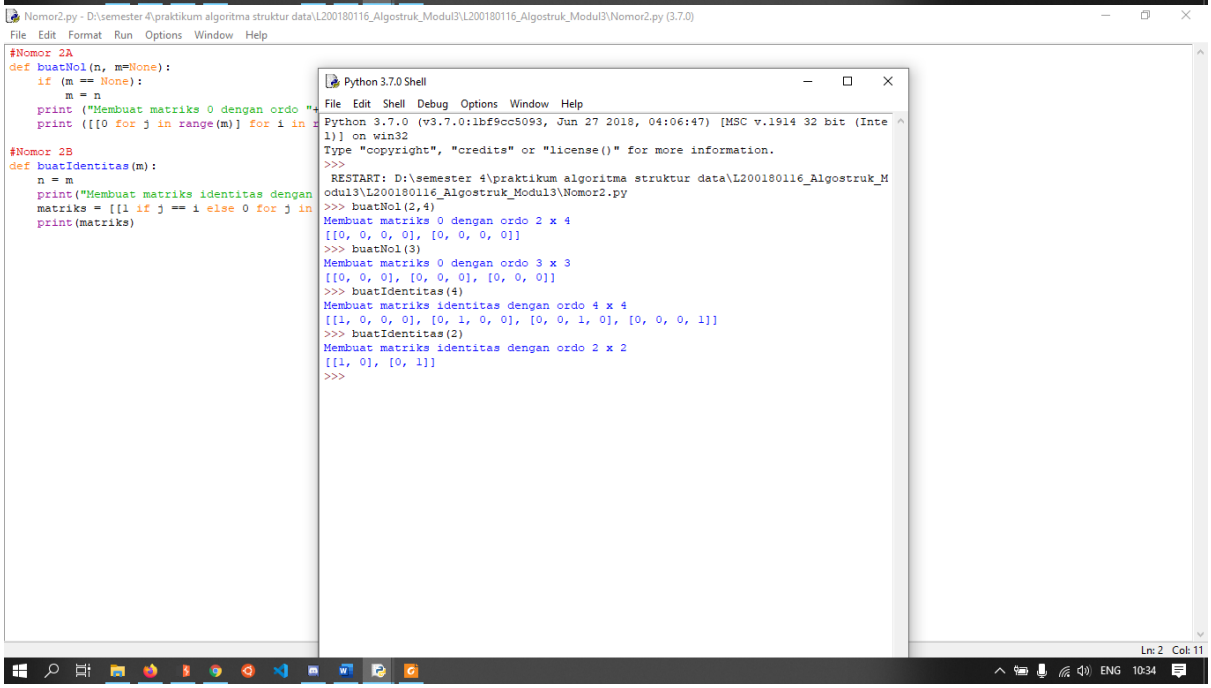

Nomor1.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor1.py (3.7.0)
File Edit Format Run Options
x.cetakmatriks(A)
print(x.cekkonsisten(A))
y = matriks()
y.cetakmatriks(B)
print(y.cekkonsisten(B))
#Nomor 1B
def ordo(matriks):
return ("Ordo matriks
#Nomor 1C
def Jumlah(matriks1, matri
if ordo(matriks1) == o
for x in range(0,
for y in range
print (mat
print()
else:
print("Matriks tid
#Nomor 1D
def kali(m,n):
a = 0
x,y = 0,0
for i in range(len(m))
x += 1
y = len(m[i])
v,w = 0,0
for i in range(len(n))
v += 1
w = len(n[i])
if (y == v):
print ("Bisa Dikal
vwxy = [[0 for j i
for i in range(len
for j in range
for k in r
vwxy[i
print(vwxy)
else:
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Nomor1.py
[1, 2]
[3, 4]
[5, 6]
matriks tidak konsisten
None
[7, 8]
[9, 10]
matriks konsisten
None
Bisa Dikalikan
[[25, 28], [57, 64], [89, 100]]
Bisa Dikalikan
[[61, 58], [77, 74]]
>>> Jumlah(A,B)
Matriks tidak sesuai
>>> Jumlah(B,C)
10
14
14
12
>>>
Ln: 27 Col: 4
Ln: 63 Col: 0
ENG 10:30

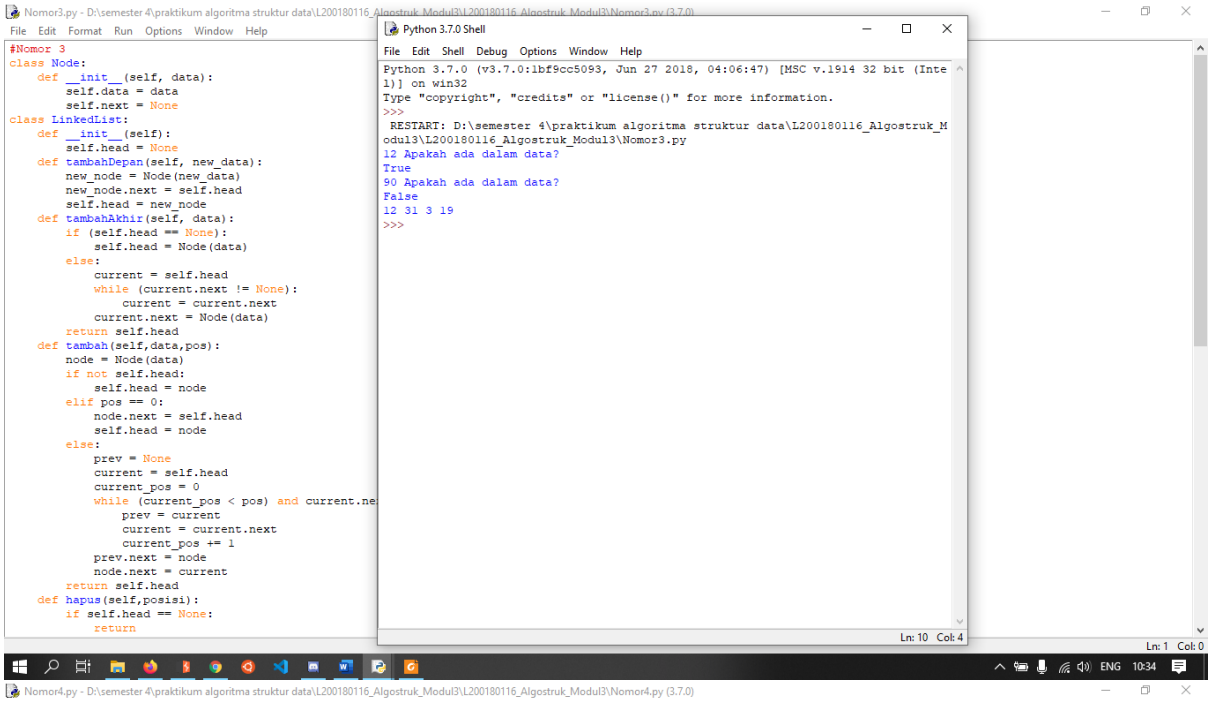

Nomor1.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor1.py (3.7.0)
File Edit Format Run Options Window Help
print(y.cekkonsisten(B))
#Nomor 1B
def ordo(matriks):
return ("Ordo matriks = "+str(len(matriks))+" x "+str(len(matriks[0])))
#Nomor 1C
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 1D
def kali(m,n):
a = 0
x,y = 0,0
for i in range(len(m)):
x += 1
y = len(m[i])
v,w = 0,0
for i in range(len(n)):
v += 1
w = len(n[i])
if (y == v):
print ("Bisa Dikalikan")
vwxy = [[0 for j in range(w)] for i in range(x)]
for i in range(len(m)):
for j in range(len(n[0])):
for k in range(len(n)):
vwxy[i][j] += m[i][k] * n[k][j]
print(vwxy)
else:
print("Tidak memenuhi syarat")
kali(A,B)
kali(B,C)
Ln: 44 Col: 21
ENG 10:30

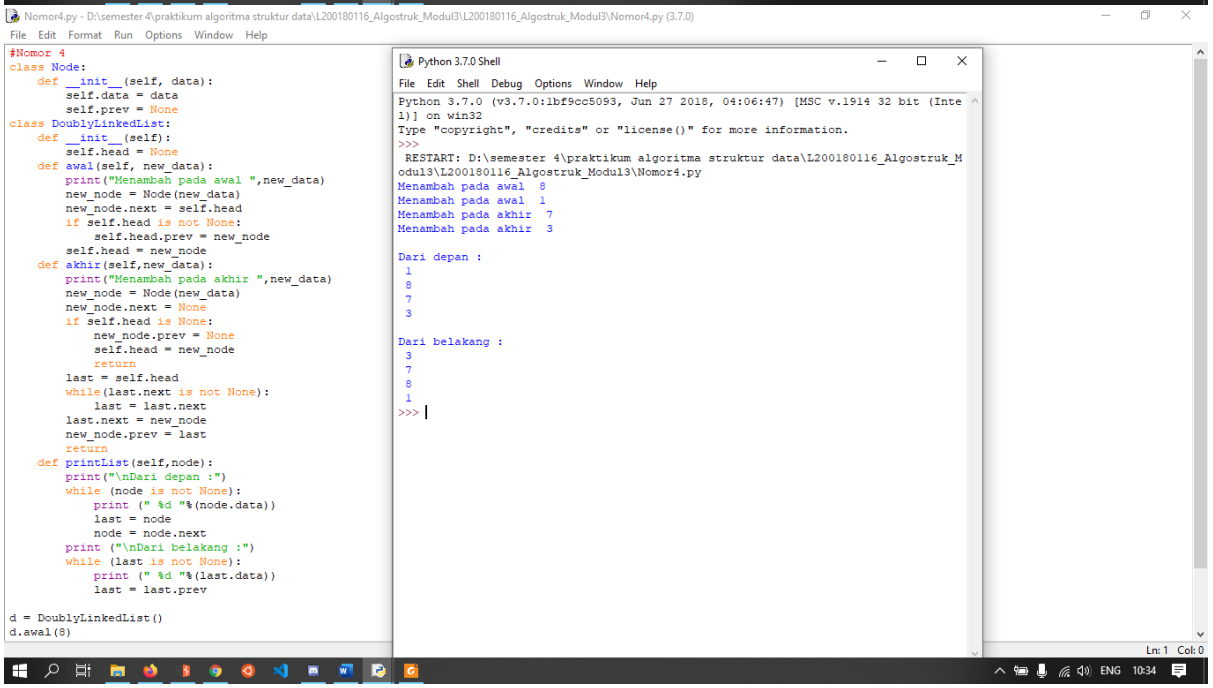

Nomor1.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor1.py (3.7.0)
File Edit Format Run Options Window Help
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor1.py
[1, 2]
[3, 4]
[5, 6]
matriks tidak konsisten
None
[7, 8]
[9, 10]
matriks konsisten
None
Bisa Dikalikan
[[25, 28], [57, 64], [89, 100]]
Bisa Dikalikan
[[61, 58], [77, 74]]
>>>
Ln: 50 Col: 16
ENG 10:30


Nomor1.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor1.py (3.7.0)
File Edit Format Run Options Window Help
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor1.py
[1, 2]
[3, 4]
[5, 6]
matriks tidak konsisten
None
[7, 8]
[9, 10]
matriks konsisten
None
Bisa Dikalikan
[[25, 28], [57, 64], [89, 100]]
Bisa Dikalikan
[[61, 58], [77, 74]]
>>> determinan(A)
'Tidak bisa dihitung, bukan matriks bujur sangkar'
>>> determinan(B)
-2
>>> determinan(C)
-24
>>>
Ln: 46 Col: 0
ENG 10:31


Nomor2.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor2.py (3.7.0)
File Edit Format Run Options Window Help
#Nomor 2A
def buatNol(n, m=None):
if (m == None):
m = n
print ("Membuat matriks 0 dengan ordo "
print ([[0 for j in range(m)] for i in
#Nomor 2B
def buatIdentitas(m):
n = m
print("Membuat matriks identitas dengan
matriks = [[1 if j == i else 0 for j in
print(matriks)
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Nomor2.py
>>> buatNol(2,4)
Membuat matriks 0 dengan ordo 2 x 4
[[0, 0, 0, 0], [0, 0, 0, 0]]
>>> buatNol(3)
Membuat matriks 0 dengan ordo 3 x 3
[[0, 0, 0], [0, 0, 0], [0, 0, 0]]
>>>
Ln: 2 Col: 11
ENG 10:33


Nomor2.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor2.py (3.7.0)
File Edit Format Run Options Window Help
#Nomor 2A
def buatNol(n, m=None):
if (m == None):
m = n
print ("Membuat matriks 0 dengan ordo "
print ([[0 for j in range(m)] for i in
#Nomor 2B
def buatIdentitas(m):
n = m
print("Membuat matriks identitas dengan
matriks = [[1 if j == i else 0 for j in
print(matriks)
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Nomor2.py
>>> buatNol(2,4)
Membuat matriks 0 dengan ordo 2 x 4
[[0, 0, 0, 0], [0, 0, 0, 0]]
>>> buatNol(3)
Membuat matriks 0 dengan ordo 3 x 3
[[0, 0, 0], [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]]
>>> buatIdentitas(2)
Membuat matriks identitas dengan ordo 2 x 2
[[1, 0], [0, 1]]
>>>
Ln: 2 Col: 11
ENG 10:34


Nomor3.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor3.py (3.7.0)
File Edit Format Run Options Window Help
#Nomor 3
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.ne
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 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Nomor3.py
12 Apakah ada dalam data?
True
90 Apakah ada dalam data?
False
12 31 3 19
>>>
Ln: 10 Col: 4
Ln: 1 Col: 0
ENG 10:34


Nomor4.py - D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_Modul3\L200180116_Algostruk_Modul3\Nomor4.py (3.7.0)
File Edit Format Run Options Window Help
#Nomor 4
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
return
def printList(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
d = DoublyLinkedList()
d.awal(8)
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\semester 4\praktikum algoritma struktur data\L200180116_Algostruk_M
odul3\L200180116_Algostruk_Modul3\Nomor4.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
>>>
Ln: 1 Col: 0
ENG 10:34