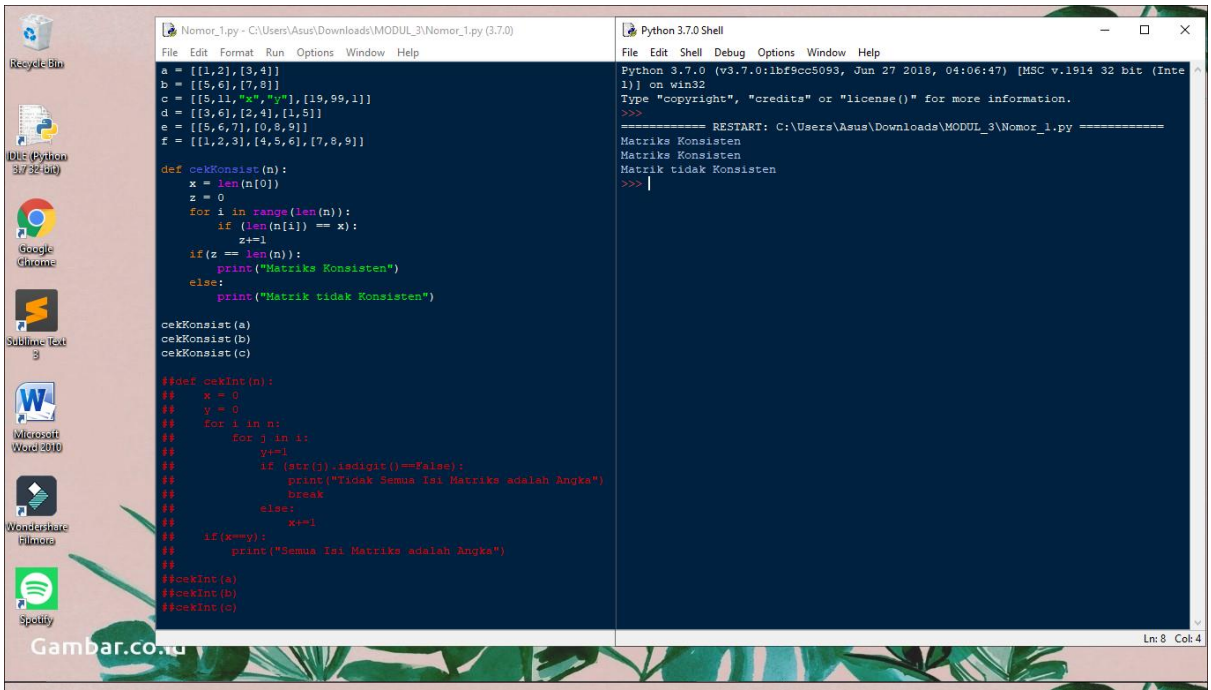
NAMA : NADYA AYU WIDYA

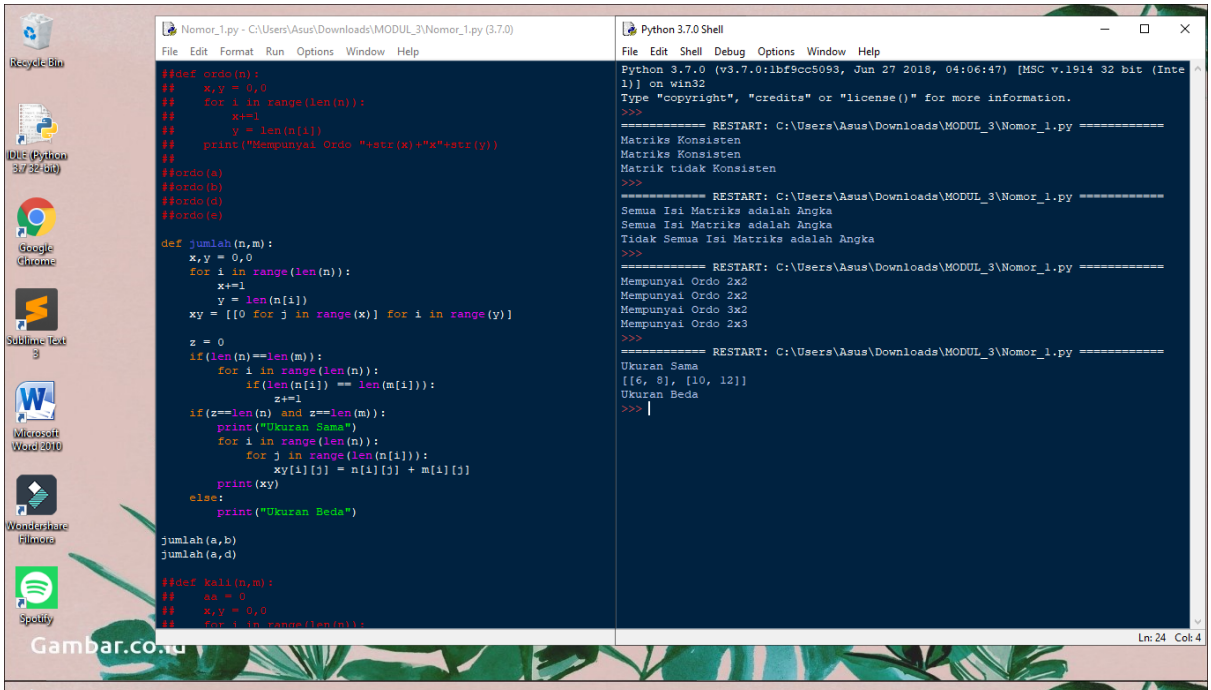
KELAS : D

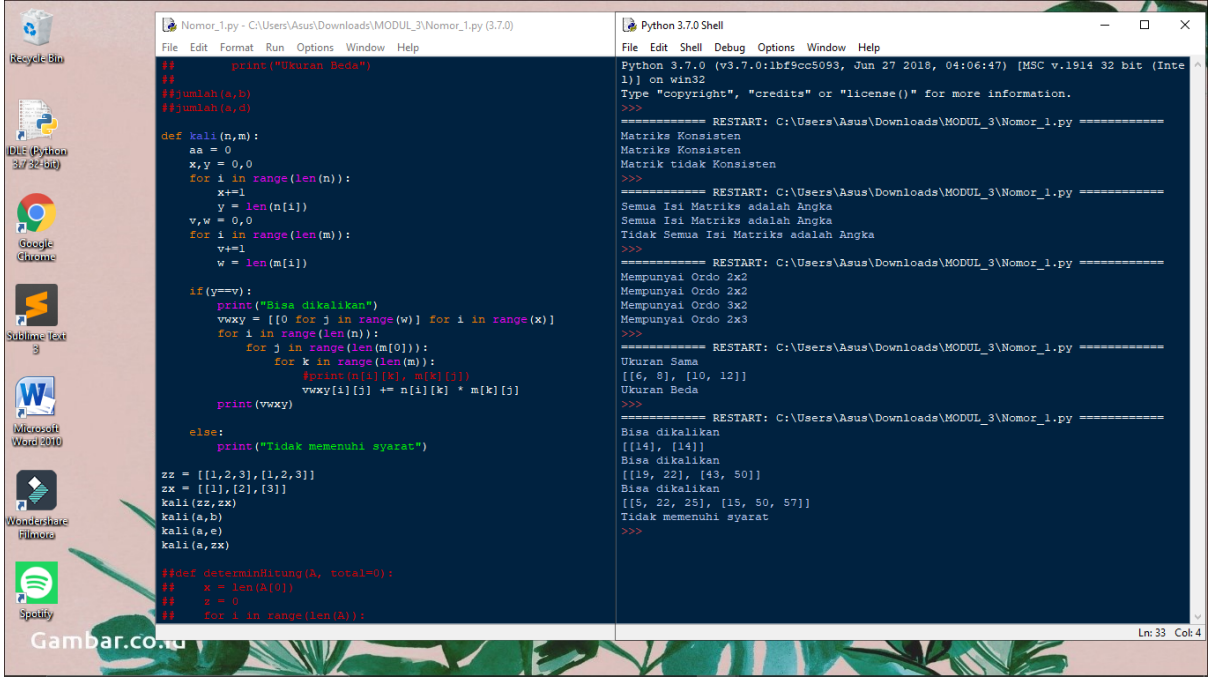
NIM : L200180099

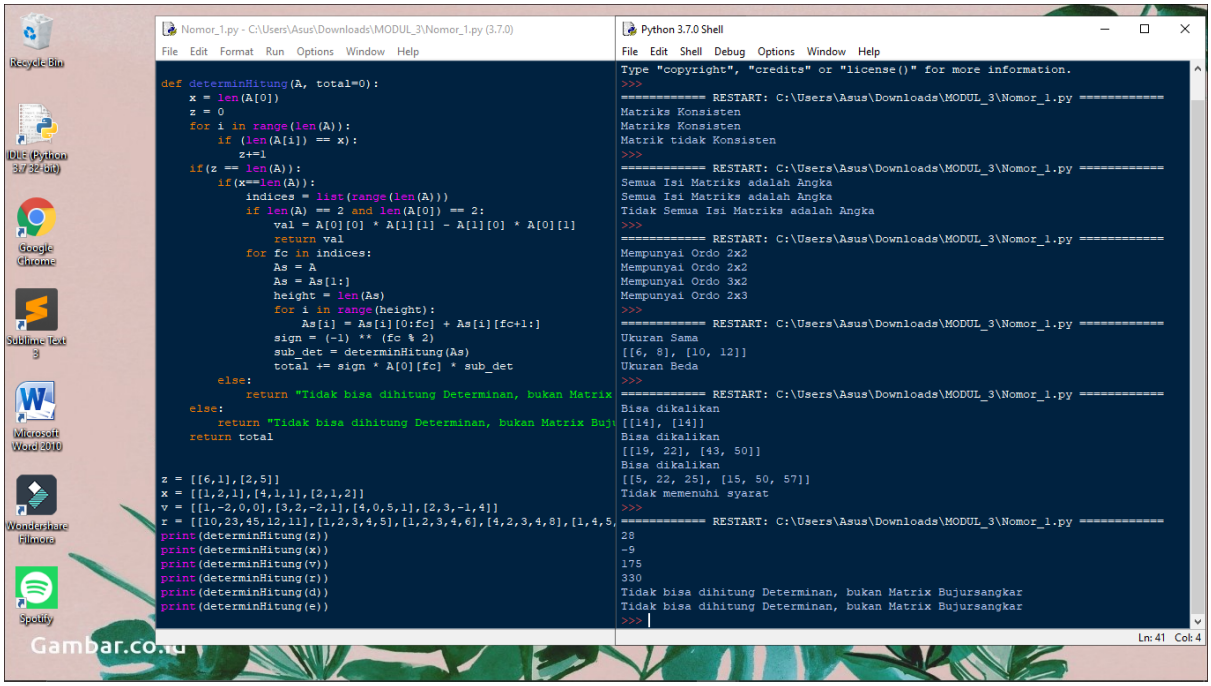
MODUL 3

No. 1

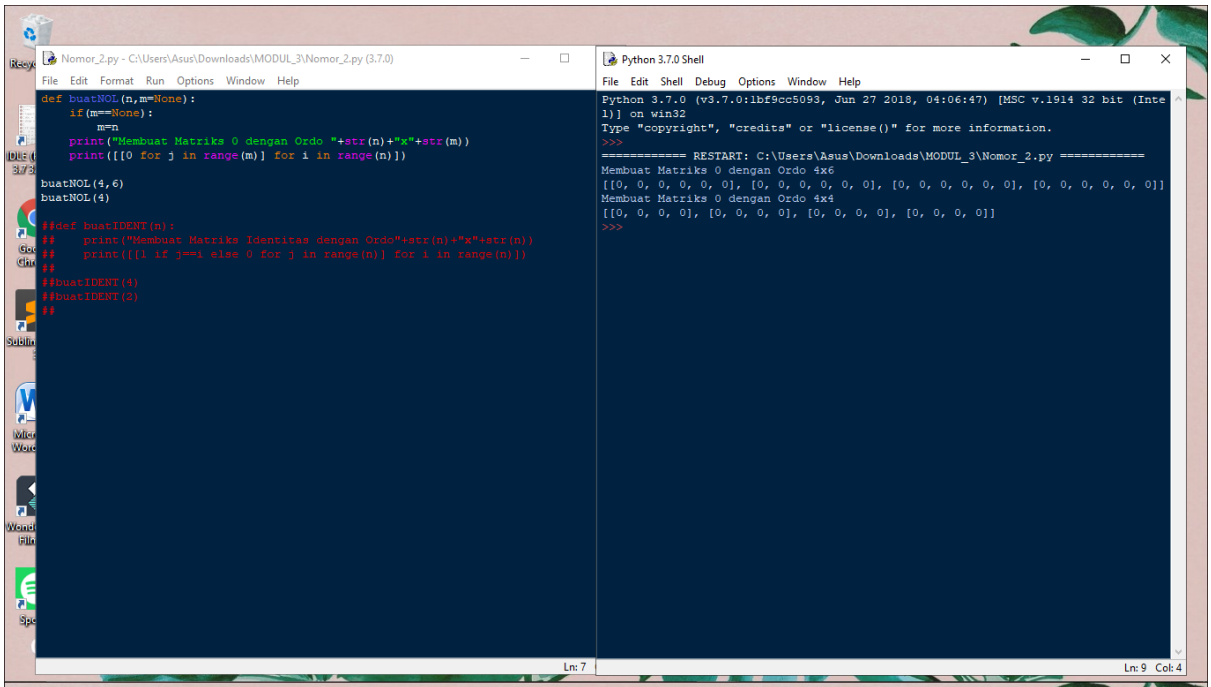


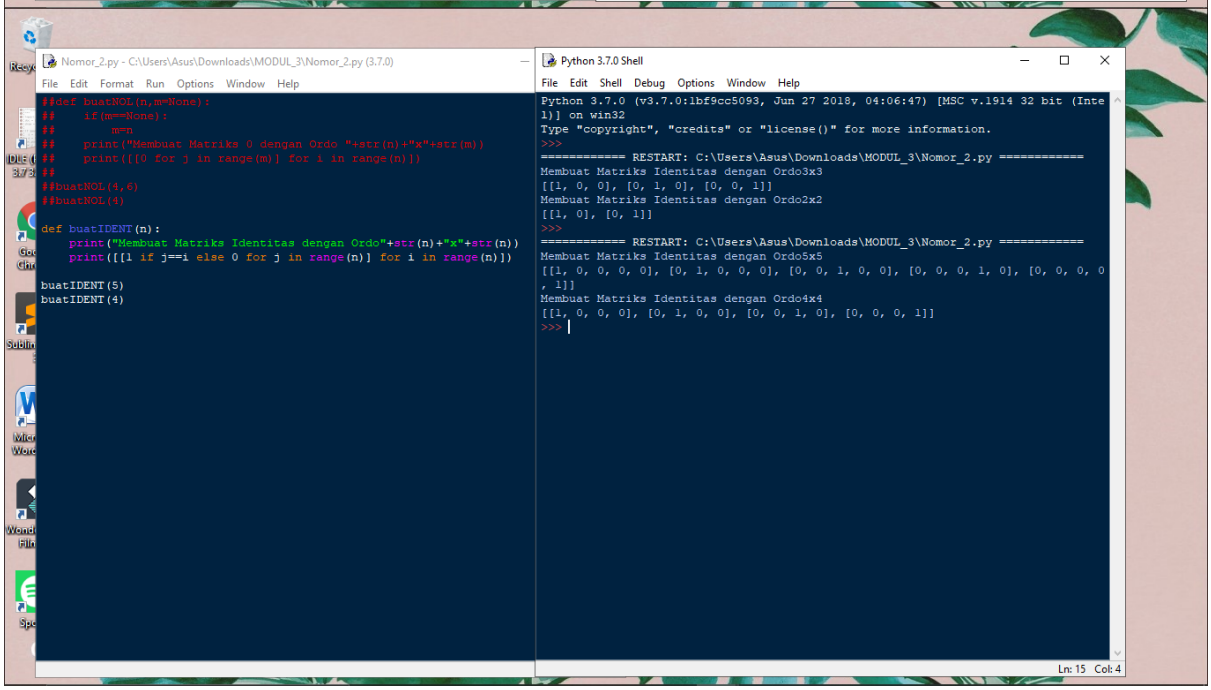

Nomor_1.py - C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py (3.7.0)
File Edit Format Run Options Window Help
##def ordo(n):
x,y = 0,0
for i in range(len(n)):
x+=1
y = len(n[i])
print("Mempunyai Ordo "+str(x)+"x"+str(y))
##
##ordo(a)
##ordo(b)
##ordo(d)
##ordo(e)
def jumlah(n,m):
x,y = 0,0
for i in range(len(n)):
x+=1
y = len(n[i])
xy = [[0 for j in range(x)] for i in range(y)]
z = 0
if(len(n)==len(m)):
for i in range(len(n)):
if(len(n[i]) == len(m[i])):
z+=1
if(z==len(n) and z==len(m)):
print("Ukuran Sama")
for i in range(len(n)):
for j in range(len(n[i])):
xy[i][j] = n[i][j] + m[i][j]
print(xy)
else:
print("Ukuran Beda")
jumlah(a,b)
jumlah(a,d)
##def kali(n,m):
aa = 0
x,y = 0,0
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: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Matriks Konsisten
Matriks Konsisten
Matrik tidak Konsisten
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Semua Isi Matriks adalah Angka
Semua Isi Matriks adalah Angka
Tidak Semua Isi Matriks adalah Angka
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Mempunyai Ordo 2x2
Mempunyai Ordo 2x2
Mempunyai Ordo 3x2
Mempunyai Ordo 2x3
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Ukuran Sama
[[6, 8], [10, 12]]
Ukuran Beda
>>>
Ln: 24 Col: 4
Recycle Bin
DLS (Python 3.7 32-bit)
Google Chrome
Sublime Text 3
Microsoft Word 2010
Wondershare Filmora
Spotify
Gambar.co.id


Nomor_1.py - C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py (3.7.0)
File Edit Format Run Options Window Help
print("Ukuran Beda")
##
##jumlah(a,b)
##jumlah(a,d)
def kali(n,m):
aa = 0
x,y = 0,0
for i in range(len(n)):
x+=1
y = len(n[i])
v,w = 0,0
for i in range(len(m)):
v+=1
w = len(m[i])
if(y==v):
print("Bisa dikalikan")
vwxy = [[0 for j in range(w)] for i in range(x)]
for i in range(len(n)):
for j in range(len(m[0])):
for k in range(len(m)):
#print(n[i][k], m[k][j])
vwxy[i][j] += n[i][k] * m[k][j]
print(vwxy)
else:
print("Tidak memenuhi syarat")
zz = [[1,2,3],[1,2,3]]
zx = [[1],[2],[3]]
kali(zz,zx)
kali(a,b)
kali(a,e)
kali(a,zx)
##def determinHitung(A, total=0):
x = len(A[0])
z = 0
for i in range(len(A)):
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: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Matriks Konsisten
Matriks Konsisten
Matrik tidak Konsisten
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Semua Isi Matriks adalah Angka
Semua Isi Matriks adalah Angka
Tidak Semua Isi Matriks adalah Angka
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Mempunyai Ordo 2x2
Mempunyai Ordo 2x2
Mempunyai Ordo 3x2
Mempunyai Ordo 2x3
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Ukuran Sama
[[6, 8], [10, 12]]
Ukuran Beda
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Bisa dikalikan
[[14], [14]]
Bisa dikalikan
[[19, 22], [43, 50]]
Bisa dikalikan
[[5, 22, 25], [15, 50, 57]]
Tidak memenuhi syarat
>>>
Ln: 33 Col: 4
Recycle Bin
DLS (Python 3.7 32-bit)
Google Chrome
Sublime Text 3
Microsoft Word 2010
Wondershare Filmora
Spotify
Gambar.co.id

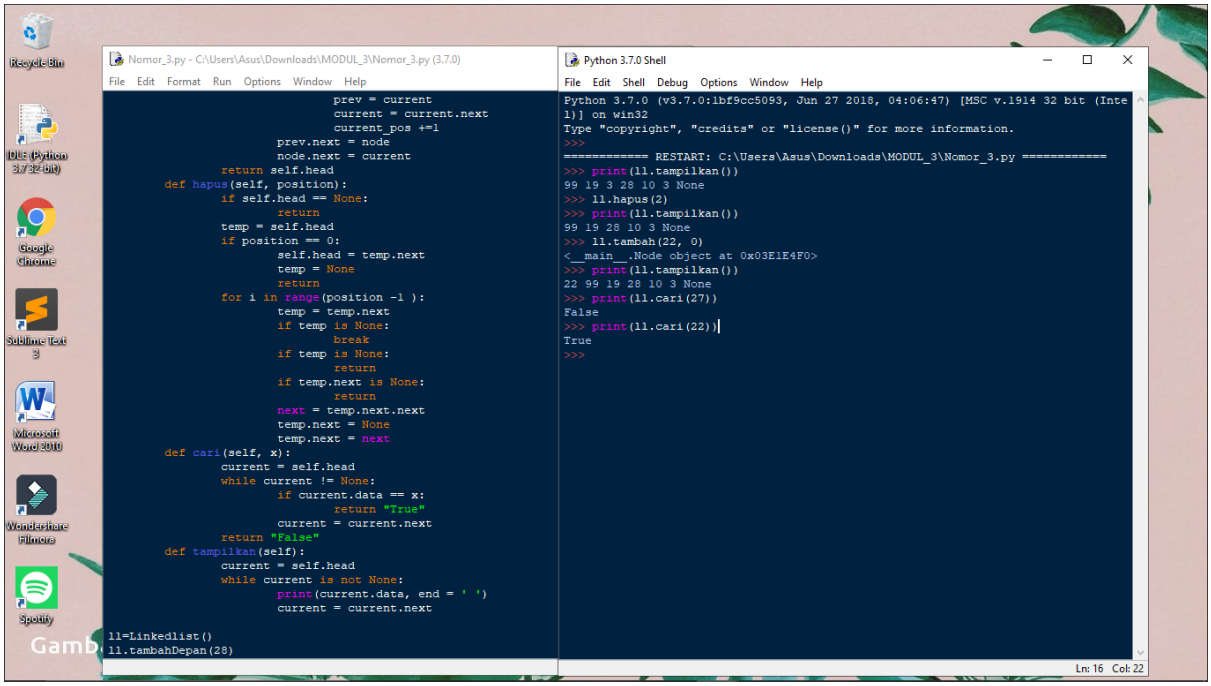

Recycle Bin
DLS (Python 3.7.32-bit)
Google Chrome
Sublime Text 3
Microsoft Word 2010
Wondershare Filmora
Spotify
Gambar.co.id
Nomor_1.py - C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py (3.7.0)
File Edit Format Run Options Window Help
def determinHitung(A, total=0):
x = len(A[0])
z = 0
for i in range(len(A)):
if (len(A[i]) == x):
z+=1
if(z == len(A)):
if(x==len(A)):
indices = list(range(len(A)))
if len(A) == 2 and len(A[0]) == 2:
val = A[0][0] * A[1][1] - A[1][0] * A[0][1]
return val
for fc in indices:
As = A
As = As[1:]
height = len(As)
for i in range(height):
As[i] = As[i][0:fc] + As[i][fc+1:]
sign = (-1) ** (fc % 2)
sub_det = determinHitung(As)
total += sign * A[0][fc] * sub_det
else:
return "Tidak bisa dihitung Determinan, bukan Matrix
else:
return "Tidak bisa dihitung Determinan, bukan Matrix Buj
return total
z = [[6,1],[2,5]]
x = [[1,2,1],[4,1,1],[2,1,2]]
v = [[1,-2,0,0],[3,2,-2,1],[4,0,5,1],[2,3,-1,4]]
r = [[10,23,45,12,11],[1,2,3,4,5],[1,2,3,4,6],[4,2,3,4,8],[1,4,5,
print(determinHitung(z))
print(determinHitung(x))
print(determinHitung(v))
print(determinHitung(r))
print(determinHitung(d))
print(determinHitung(e))
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Matriks Konsisten
Matriks Konsisten
Matrik tidak Konsisten
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Semua Isi Matriks adalah Angka
Semua Isi Matriks adalah Angka
Tidak Semua Isi Matriks adalah Angka
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Mempunyai Ordo 2x2
Mempunyai Ordo 2x2
Mempunyai Ordo 3x2
Mempunyai Ordo 2x3
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Ukuran Sama
[[6, 8], [10, 12]]
Ukuran Beda
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
Bisa dikalikan
[[14], [14]]
Bisa dikalikan
[[19, 22], [43, 50]]
Bisa dikalikan
[[5, 22, 25], [15, 50, 57]]
Tidak memenuhi syarat
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_1.py ==========
28
-9
175
330
Tidak bisa dihitung Determinan, bukan Matrix Bujursangkar
Tidak bisa dihitung Determinan, bukan Matrix Bujursangkar
>>>
Ln: 41 Col: 4

No. 2

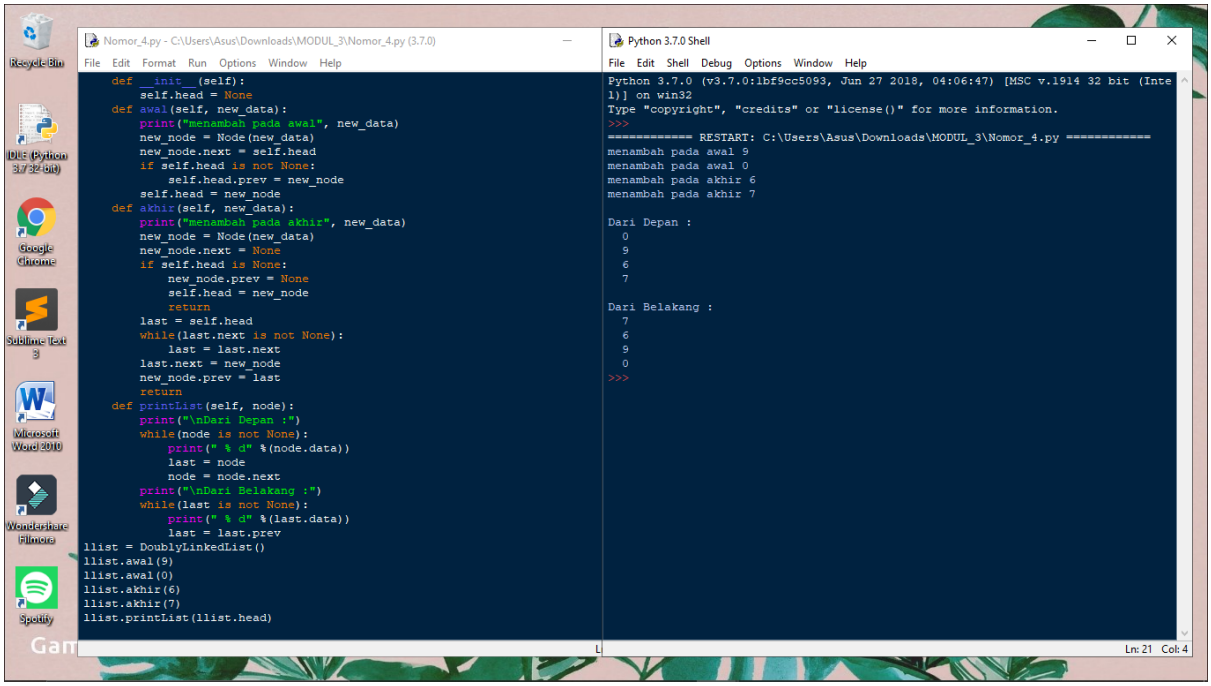

Nomor_2.py - C:\Users\Asus\Downloads\MODUL_3\Nomor_2.py (3.7.0)
File Edit Format Run Options Window Help
def buatNOL(n,m=None):
if(m==None):
m=n
print("Membuat Matriks 0 dengan Ordo "+str(n)+"x"+str(m))
print([[0 for j in range(m)] for i in range(n)])
buatNOL(4,6)
buatNOL(4)
##def buatIDENT(n):
##print("Membuat Matriks Identitas dengan Ordo"+str(n)+"x"+str(n))
##print([[1 if j==i else 0 for j in range(n)] for i in range(n)])
##
##buatIDENT(4)
##buatIDENT(2)
##
Ln: 7
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: C:\Users\Asus\Downloads\MODUL_3\Nomor_2.py ==========
Membuat Matriks 0 dengan Ordo 4x6
[[0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0]]
Membuat Matriks 0 dengan Ordo 4x4
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]
>>>
Ln: 9 Col: 4


Nomor_2.py - C:\Users\Asus\Downloads\MODUL_3\Nomor_2.py (3.7.0)
File Edit Format Run Options Window Help
##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)])
##
##buatNOL(4,6)
##buatNOL(4)
def buatIDENT(n):
print("Membuat Matriks Identitas dengan Ordo"+str(n)+"x"+str(n))
print([[1 if j==i else 0 for j in range(n)] for i in range(n)])
buatIDENT(5)
buatIDENT(4)
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: C:\Users\Asus\Downloads\MODUL_3\Nomor_2.py ==========
Membuat Matriks Identitas dengan Ordo3x3
[[1, 0, 0], [0, 1, 0], [0, 0, 1]]
Membuat Matriks Identitas dengan Ordo2x2
[[1, 0], [0, 1]]
>>>
========== RESTART: C:\Users\Asus\Downloads\MODUL_3\Nomor_2.py ==========
Membuat Matriks Identitas dengan Ordo5x5
[[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]]
Membuat Matriks Identitas dengan Ordo4x4
[[1, 0, 0, 0], [0, 1, 0, 0], [0, 0, 1, 0], [0, 0, 0, 1]]
>>>
Ln: 15 Col: 4

No. 3


Nomor_3.py - C:\Users\Asus\Downloads\MODUL_3\Nomor_3.py (3.7.0)
File Edit Format Run Options Window Help
prev = current
current = current.next
current_pos +=1
prev.next = node
node.next = current
return self.head
def hapus(self, position):
if self.head == None:
return
temp = self.head
if position == 0:
self.head = temp.next
temp = None
return
for i in range(position -1):
temp = temp.next
if temp is None:
break
if temp is None:
return
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:
return "True"
current = current.next
return "False"
def tampilkan(self):
current = self.head
while current is not None:
print(current.data, end = ' ')
current = current.next
ll=Linkedlist()
ll.tambahDepan(28)
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: C:\Users\Asus\Downloads\MODUL_3\Nomor_3.py ==========
>>> print(ll.tampilkan())
99 19 3 28 10 3 None
>>> ll.hapus(2)
>>> print(ll.tampilkan())
99 19 28 10 3 None
>>> ll.tambah(22, 0)
<__main__.Node object at 0x03E1E4F0>
>>> print(ll.tampilkan())
22 99 19 28 10 3 None
>>> print(ll.cari(27))
False
>>> print(ll.cari(22))
True
>>>
Ln: 16 Col: 22

No. 4


Nomor_4.py - C:\Users\Asus\Downloads\MODUL_3\Nomor_4.py (3.7.0)
File Edit Format Run Options Window Help
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
llist = DoublyLinkedList()
llist.awal(9)
llist.awal(0)
llist.akhir(6)
llist.akhir(7)
llist.printList(llist.head)
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: C:\Users\Asus\Downloads\MODUL_3\Nomor_4.py ==========
menambah pada awal 9
menambah pada awal 0
menambah pada akhir 6
menambah pada akhir 7
Dari Depan :
0
9
6
7
Dari Belakang :
7
6
9
0
>>>
Ln: 21 Col: 4