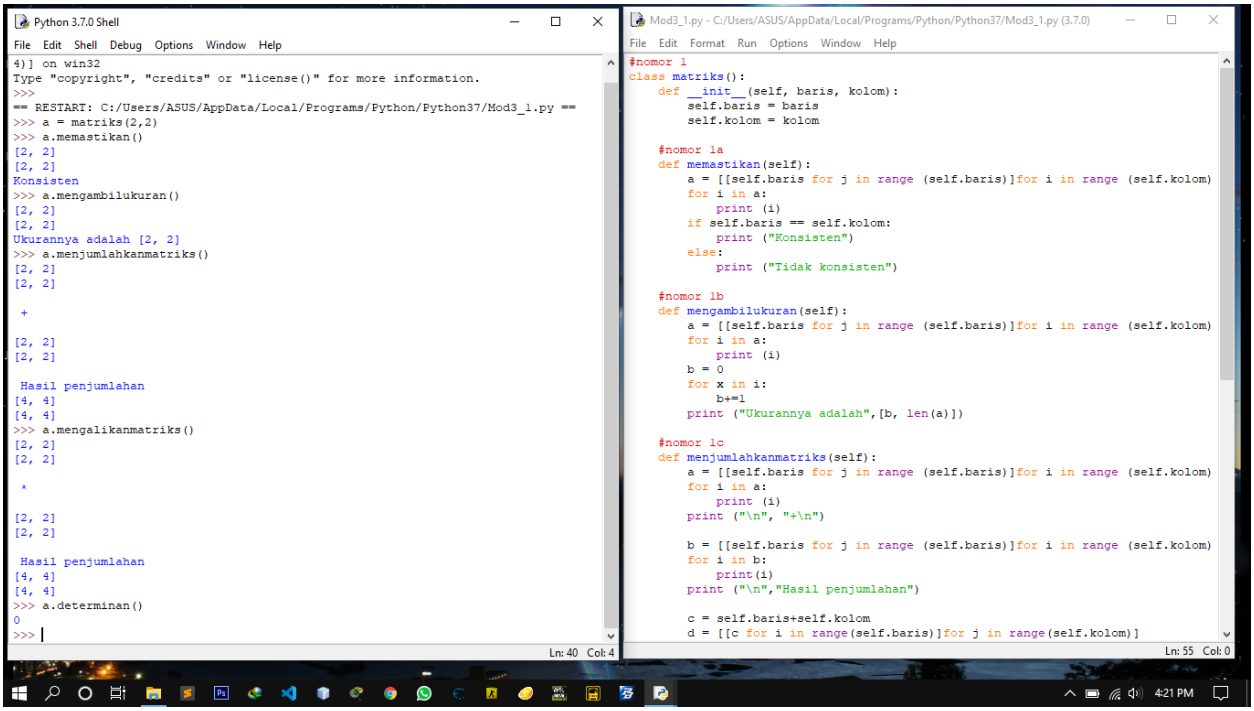
Nama : Alif Al Amin

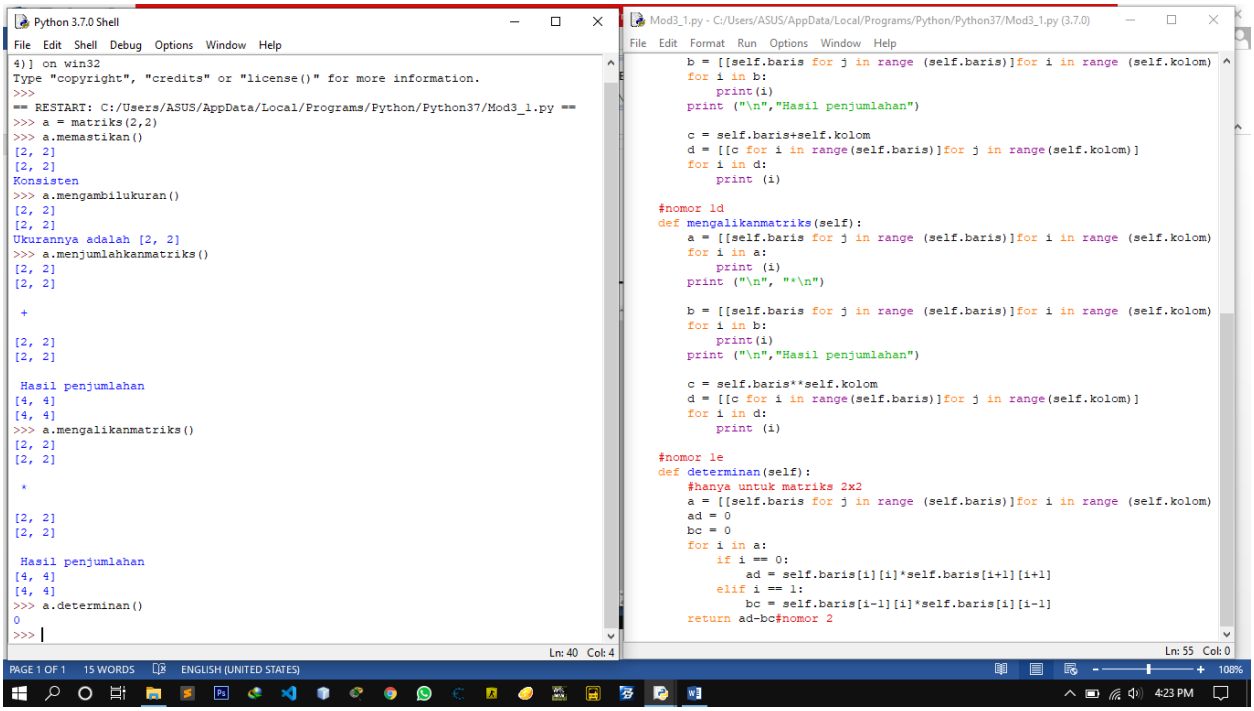
NIM : L200180082

Kelas : C

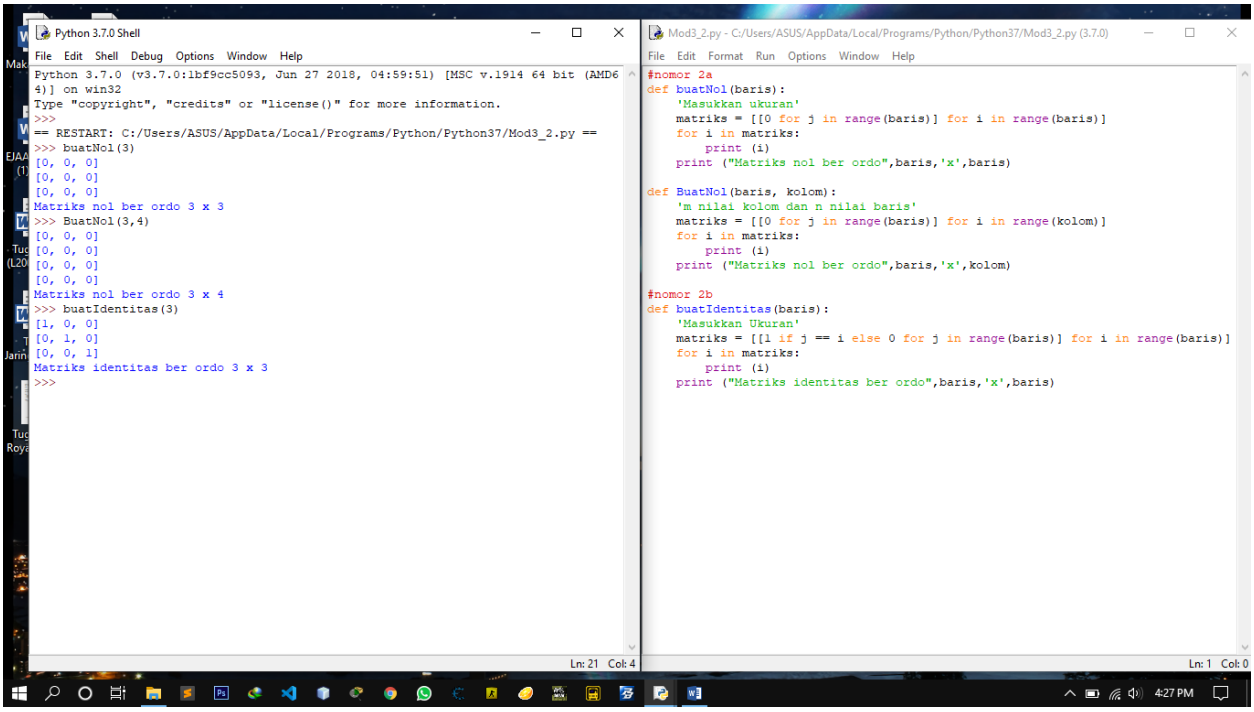
Tugas Modul 3

1.



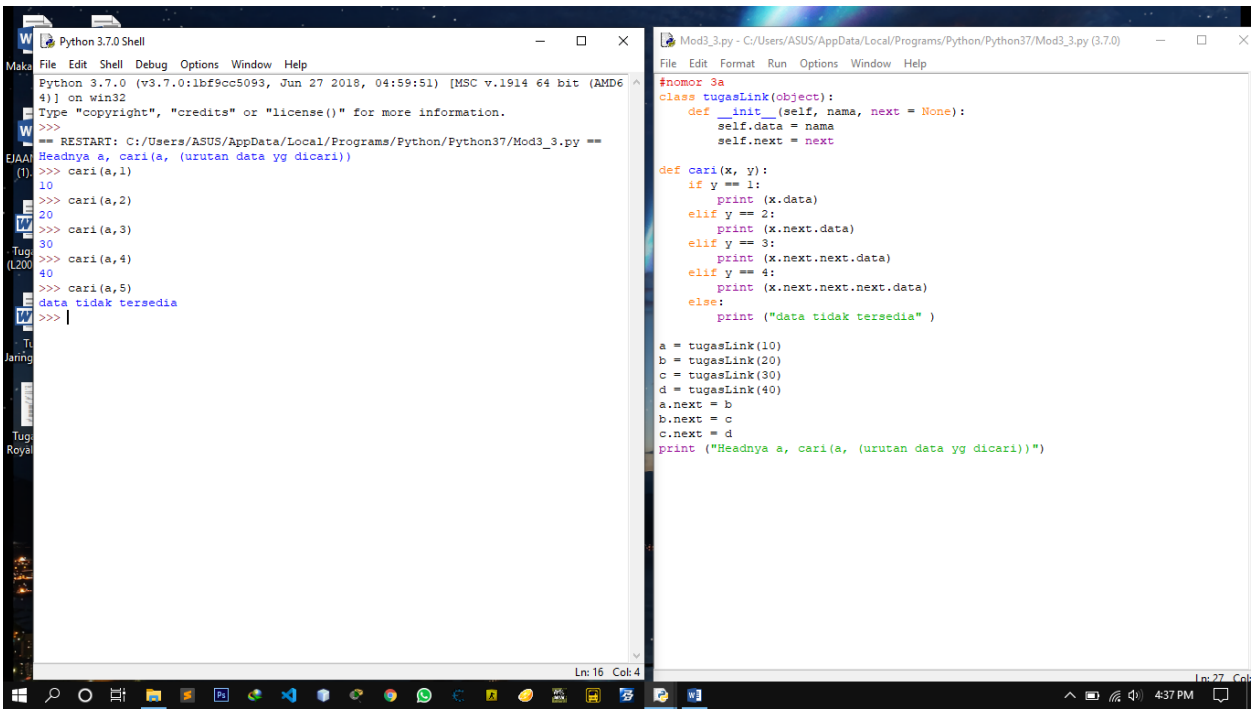


2.

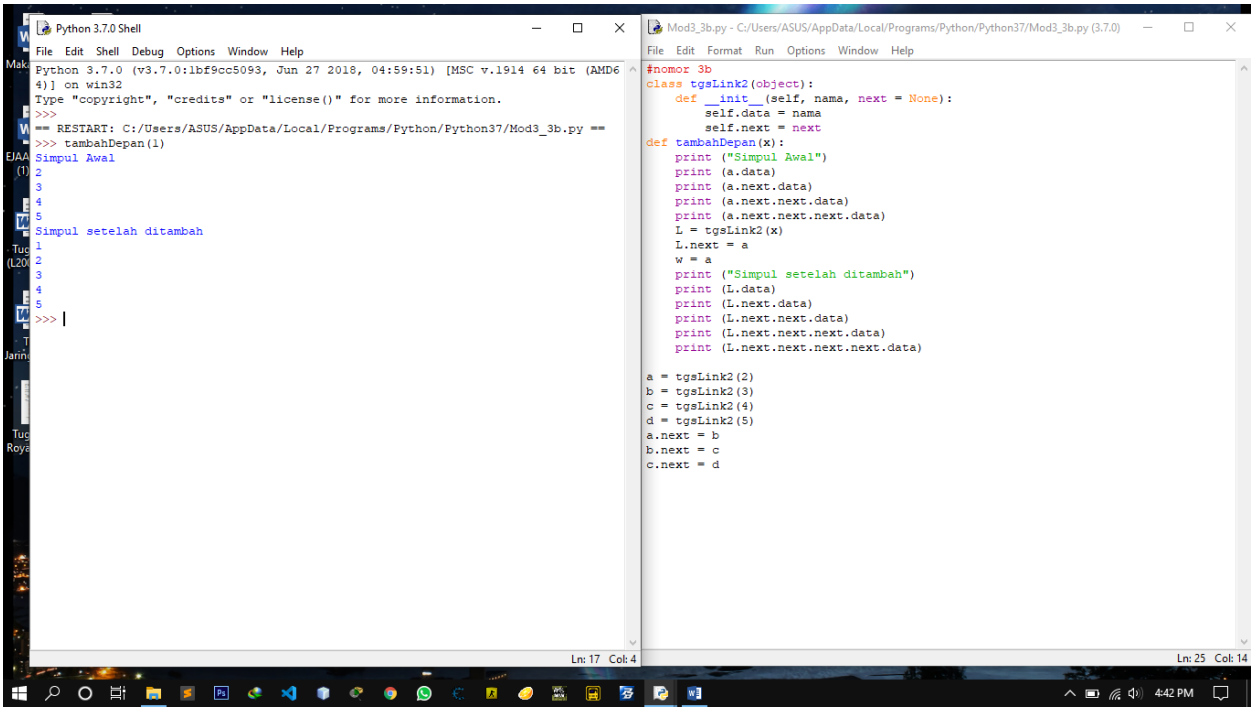

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_2.py ==
>>> buatNol(3)
[0, 0, 0]
[0, 0, 0]
[0, 0, 0]
Matriks nol ber ordo 3 x 3
>>> BuatNol(3,4)
[0, 0, 0]
[0, 0, 0]
[0, 0, 0]
[0, 0, 0]
Matriks nol ber ordo 3 x 4
>>> buatIdentitas(3)
[1, 0, 0]
[0, 1, 0]
[0, 0, 1]
Matriks identitas ber ordo 3 x 3
>>>
Ln: 21 Col: 4
Mod3_2.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_2.py (3.7.0)
File Edit Format Run Options Window Help
#nomor 2a
def buatNol(baris):
'Masukkan ukuran'
matriks = [[0 for j in range(baris)] for i in range(baris)]
for i in matriks:
print (i)
print ("Matriks nol ber ordo",baris,'x',baris)
def BuatNol(baris, kolom):
'm nilai kolom dan n nilai baris'
matriks = [[0 for j in range(baris)] for i in range(kolom)]
for i in matriks:
print (i)
print ("Matriks nol ber ordo",baris,'x',kolom)
#nomor 2b
def buatIdentitas(baris):
'Masukkan Ukuran'
matriks = [[1 if j == i else 0 for j in range(baris)] for i in range(baris)]
for i in matriks:
print (i)
print ("Matriks identitas ber ordo",baris,'x',baris)
Ln: 1 Col: 0
4:27 PM

3.

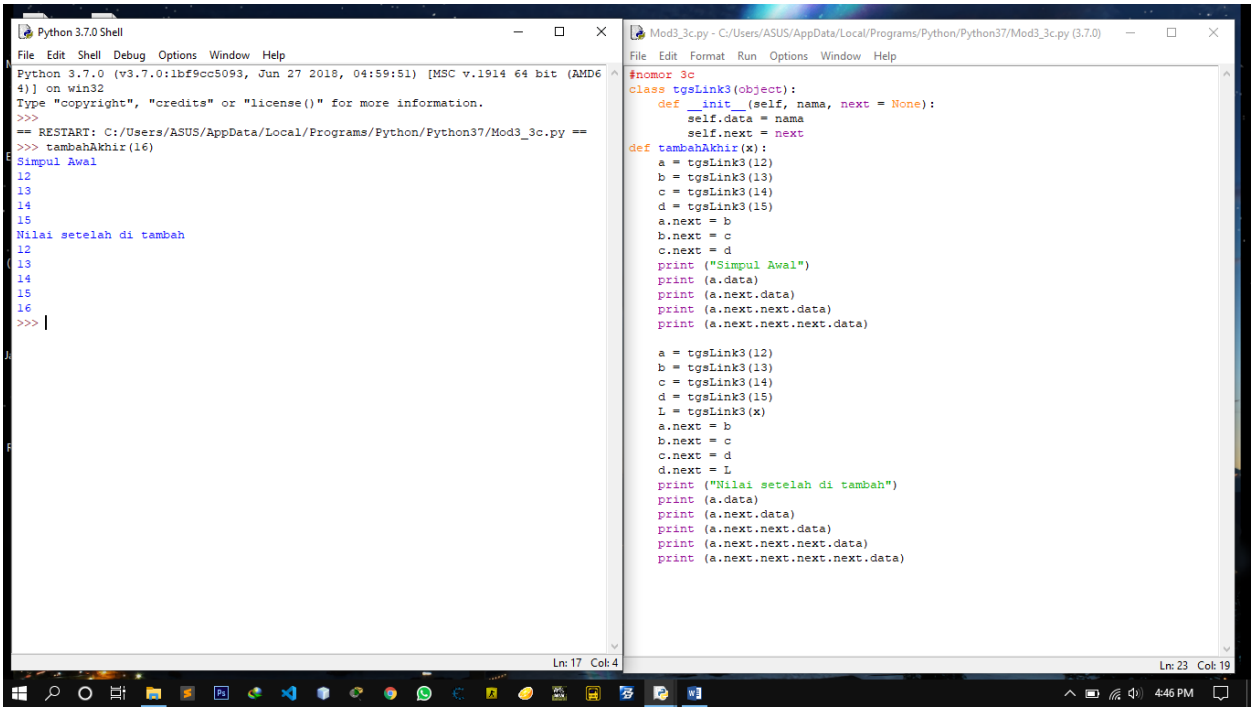
a.


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3.py ==
Headnya a, cari(a, (urutan data yg dicari))
>>> cari(a,1)
10
>>> cari(a,2)
20
>>> cari(a,3)
30
>>> cari(a,4)
40
>>> cari(a,5)
data tidak tersedia
>>>
Ln: 16 Col: 4
Mod3_3.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3.py (3.7.0)
File Edit Format Run Options Window Help
#nomor 3a
class tugasLink(object):
def __init__(self, nama, next = None):
self.data = nama
self.next = next
def cari(x, y):
if y == 1:
print (x.data)
elif y == 2:
print (x.next.data)
elif y == 3:
print (x.next.next.data)
elif y == 4:
print (x.next.next.next.data)
else:
print ("data tidak tersedia")
a = tugasLink(10)
b = tugasLink(20)
c = tugasLink(30)
d = tugasLink(40)
a.next = b
b.next = c
c.next = d
print ("Headnya a, cari(a, (urutan data yg dicari))")
4:37 PM

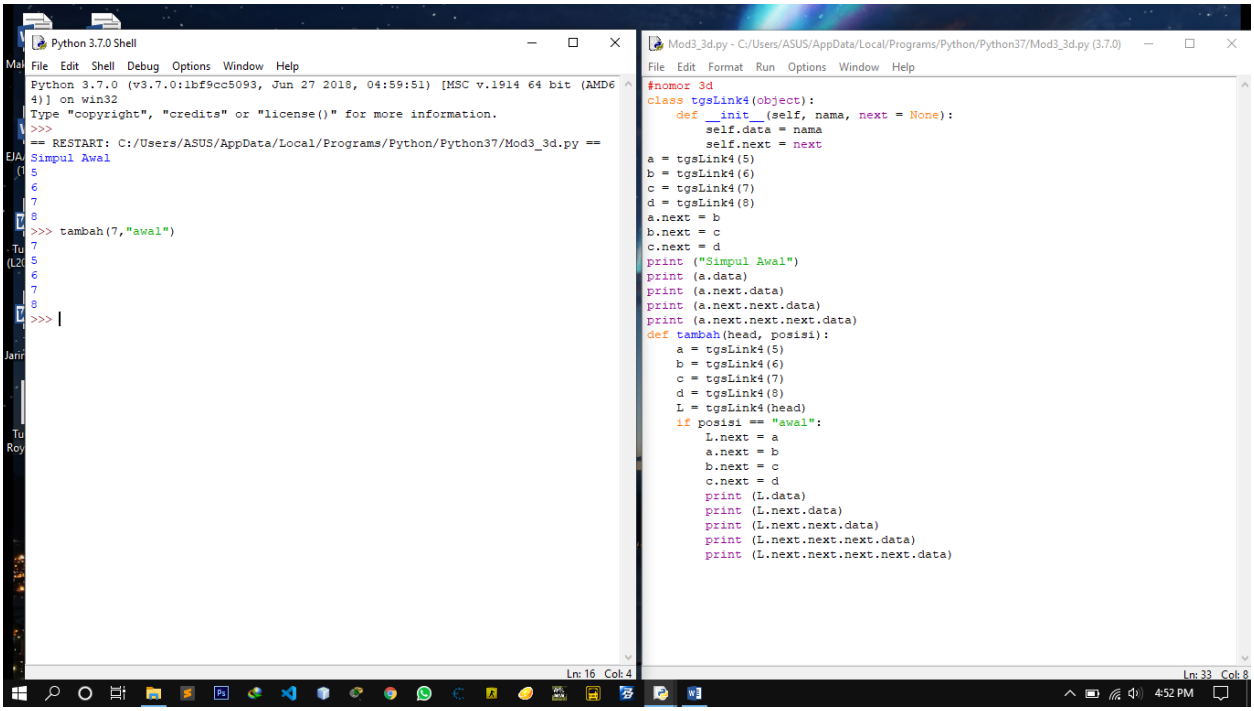
b.


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3b.py ==
>>> tambahDepan(1)
Simpul Awal
2
3
4
5
Simpul setelah ditambah
1
2
3
4
5
>>>
Ln: 17 Col: 4
Mod3_3b.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3b.py (3.7.0)
File Edit Format Run Options Window Help
#nomor 3b
class tgsLink2(object):
def __init__(self, nama, next = None):
self.data = nama
self.next = next
def tambahDepan(x):
print ("Simpul Awal")
print (a.data)
print (a.next.data)
print (a.next.next.data)
print (a.next.next.next.data)
L = tgsLink2(x)
L.next = a
w = a
print ("Simpul setelah ditambah")
print (L.data)
print (L.next.data)
print (L.next.next.data)
print (L.next.next.next.data)
print (L.next.next.next.next.data)
a = tgsLink2(2)
b = tgsLink2(3)
c = tgsLink2(4)
d = tgsLink2(5)
a.next = b
b.next = c
c.next = d
Ln: 25 Col: 14
4:42 PM

c.


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3c.py ==
>>> tambahAkhir(16)
Simpul Awal
12
13
14
15
Nilai setelah di tambah
12
13
14
15
16
>>>
Ln: 17 Col: 4
Mod3_3c.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3c.py (3.7.0)
File Edit Format Run Options Window Help
#nomor 3c
class tgsLink3(object):
def __init__(self, nama, next = None):
self.data = nama
self.next = next
def tambahAkhir(x):
a = tgsLink3(12)
b = tgsLink3(13)
c = tgsLink3(14)
d = tgsLink3(15)
a.next = b
b.next = c
c.next = d
print ("Simpul Awal")
print (a.data)
print (a.next.data)
print (a.next.next.data)
print (a.next.next.next.data)
a = tgsLink3(12)
b = tgsLink3(13)
c = tgsLink3(14)
d = tgsLink3(15)
L = tgsLink3(x)
a.next = b
b.next = c
c.next = d
d.next = L
print ("Nilai setelah di tambah")
print (a.data)
print (a.next.data)
print (a.next.next.data)
print (a.next.next.next.data)
print (a.next.next.next.next.data)
Ln: 23 Col: 19
4:46 PM

d.



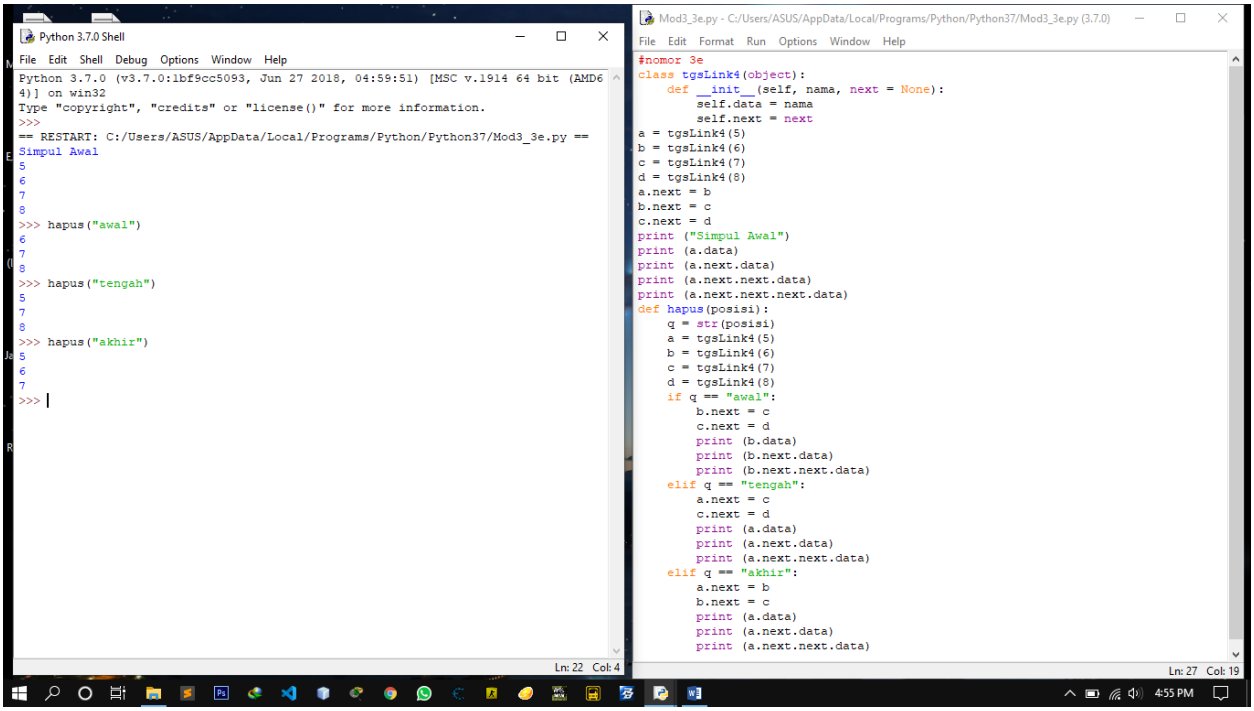
Python 3.7.0 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3d.py ==
Simpul Awal
5
6
7
8
>>> tambah(7,"awal")
7
5
6
7
8
>>>
```

Mod3_3d.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3d.py (3.7.0)

```
File  Edit  Format  Run  Options  Window  Help
#nomor 3d
class tgsLink4(object):
    def __init__(self, nama, next = None):
        self.data = nama
        self.next = next
a = tgsLink4(5)
b = tgsLink4(6)
c = tgsLink4(7)
d = tgsLink4(8)
a.next = b
b.next = c
c.next = d
print ("Simpul Awal")
print (a.data)
print (a.next.data)
print (a.next.next.data)
print (a.next.next.next.data)
def tambah(head, posisi):
    a = tgsLink4(5)
    b = tgsLink4(6)
    c = tgsLink4(7)
    d = tgsLink4(8)
    L = tgsLink4(head)
    if posisi == "awal":
        L.next = a
        a.next = b
        b.next = c
        c.next = d
        print (L.data)
        print (L.next.data)
        print (L.next.next.data)
        print (L.next.next.next.data)
        print (L.next.next.next.next.data)
```

e.



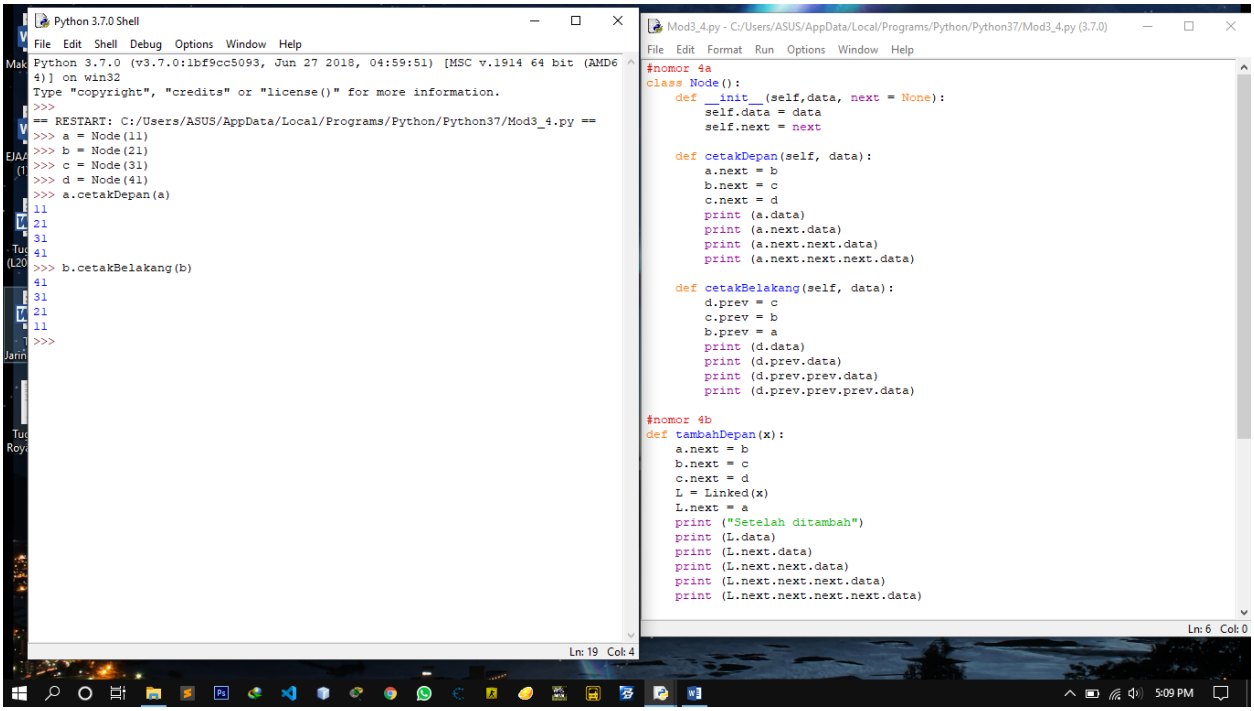
Python 3.7.0 Shell

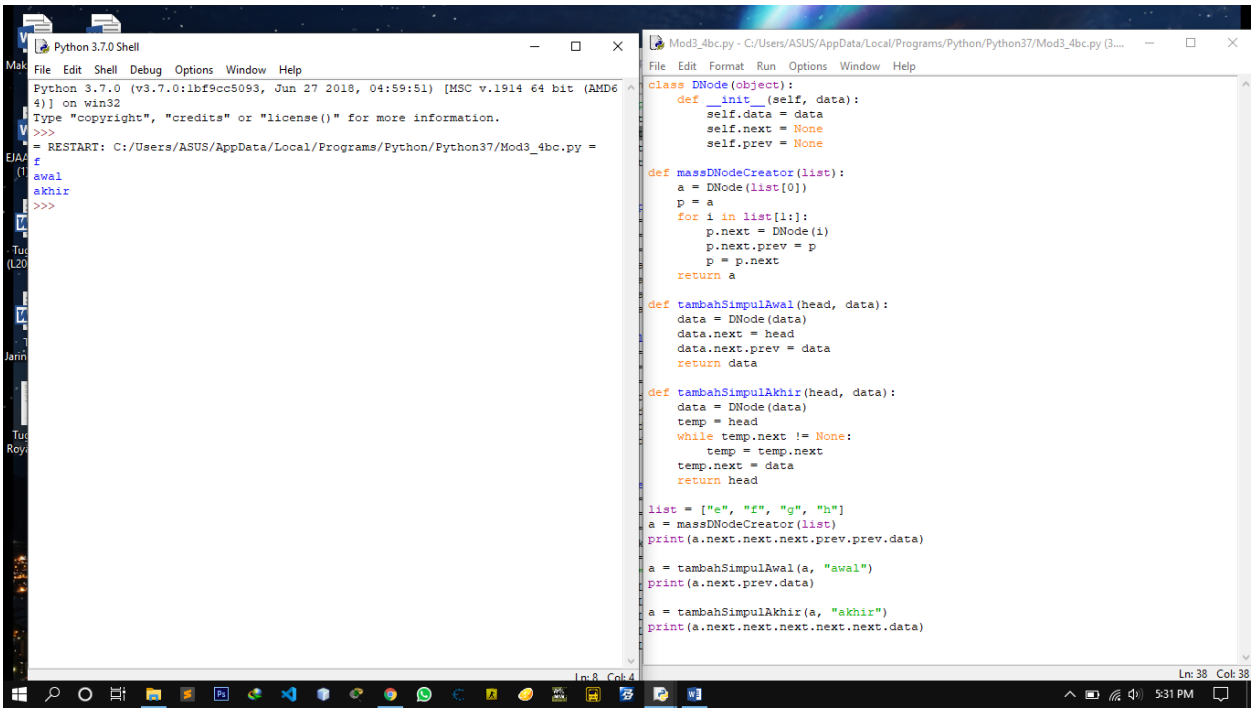
```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3e.py ==
Simpul Awal
5
6
7
8
>>> hapus("awal")
6
7
8
>>> hapus("tengah")
5
7
8
>>> hapus("akhir")
5
6
7
>>>
```

Mod3_3e.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_3e.py (3.7.0)

```
File  Edit  Format  Run  Options  Window  Help
#nomor 3e
class tgsLink4(object):
    def __init__(self, nama, next = None):
        self.data = nama
        self.next = next
a = tgsLink4(5)
b = tgsLink4(6)
c = tgsLink4(7)
d = tgsLink4(8)
a.next = b
b.next = c
c.next = d
print ("Simpul Awal")
print (a.data)
print (a.next.data)
print (a.next.next.data)
print (a.next.next.next.data)
def hapus(posisi):
    q = str(posisi)
    a = tgsLink4(5)
    b = tgsLink4(6)
    c = tgsLink4(7)
    d = tgsLink4(8)
    if q == "awal":
        b.next = c
        c.next = d
        print (b.data)
        print (b.next.data)
        print (b.next.next.data)
    elif q == "tengah":
        a.next = c
        c.next = d
        print (a.data)
        print (a.next.data)
        print (a.next.next.data)
    elif q == "akhir":
        a.next = b
        b.next = c
        print (a.data)
        print (a.next.data)
        print (a.next.next.data)
```

4.


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_4.py ==
>>> a = Node(11)
>>> b = Node(21)
>>> c = Node(31)
>>> d = Node(41)
>>> a.cetakDepan(a)
11
21
31
41
>>> b.cetakBelakang(b)
41
31
21
11
>>>
Ln: 19 Col: 4
Mod3_4.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_4.py (3.7.0)
File Edit Format Run Options Window Help
#nomor 4a
class Node():
def __init__(self,data, next = None):
self.data = data
self.next = next
def cetakDepan(self, data):
a.next = b
b.next = c
c.next = d
print (a.data)
print (a.next.data)
print (a.next.next.data)
print (a.next.next.next.data)
def cetakBelakang(self, data):
d.prev = c
c.prev = b
b.prev = a
print (d.data)
print (d.prev.data)
print (d.prev.prev.data)
print (d.prev.prev.prev.data)
#nomor 4b
def tambahDepan(x):
a.next = b
b.next = c
c.next = d
L = Linked(x)
L.next = a
print ("Setelah ditambah")
print (L.data)
print (L.next.data)
print (L.next.next.data)
print (L.next.next.next.data)
print (L.next.next.next.next.data)
Ln: 6 Col: 0
5:09 PM


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_4bc.py =
f
awal
akhir
>>>
Ln: 8 Col: 4
Mod3_4bc.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Mod3_4bc.py (3....
File Edit Format Run Options Window Help
class DNode(object):
def __init__(self, data):
self.data = data
self.next = None
self.prev = None
def massDNodeCreator(list):
a = DNode(list[0])
p = a
for i in list[1:]:
p.next = DNode(i)
p.next.prev = p
p = p.next
return a
def tambahSimpulAwal(head, data):
data = DNode(data)
data.next = head
data.next.prev = data
return data
def tambahSimpulAkhir(head, data):
data = DNode(data)
temp = head
while temp.next != None:
temp = temp.next
temp.next = data
return head
list = ["e", "f", "g", "h"]
a = massDNodeCreator(list)
print(a.next.next.next.prev.prev.data)
a = tambahSimpulAwal(a, "awal")
print(a.next.prev.data)
a = tambahSimpulAkhir(a, "akhir")
print(a.next.next.next.next.next.data)
Ln: 38 Col: 38
5:31 PM