

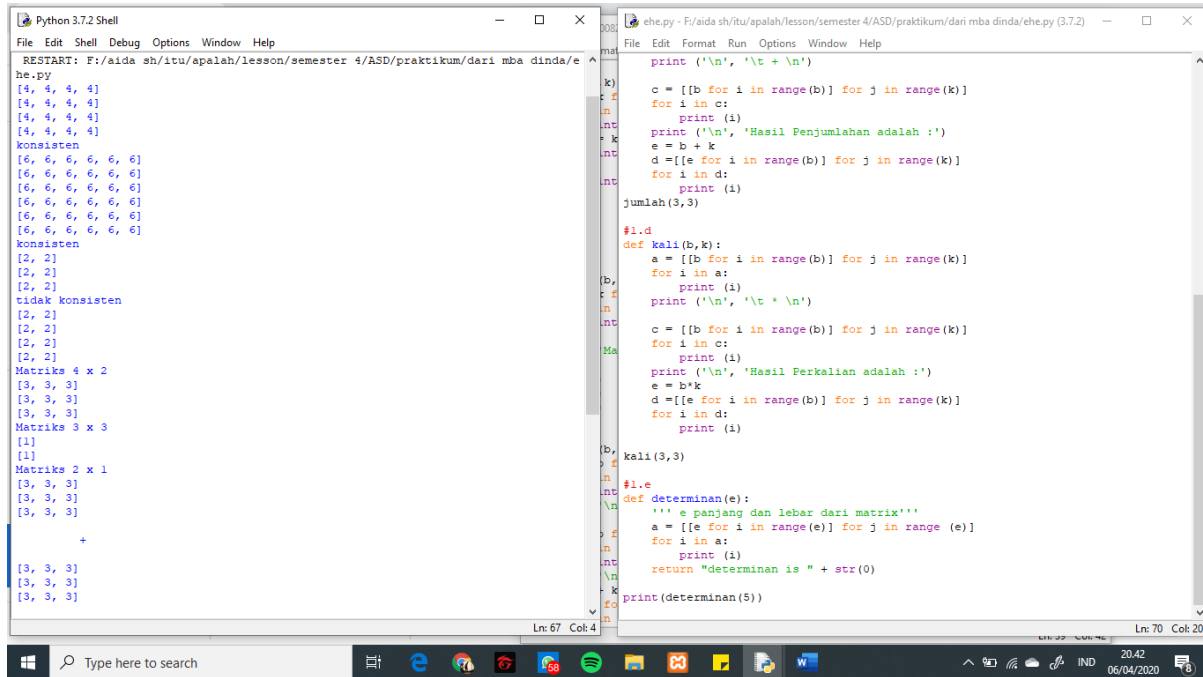
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Kelas : C

Modul 3

1. Tugas 1

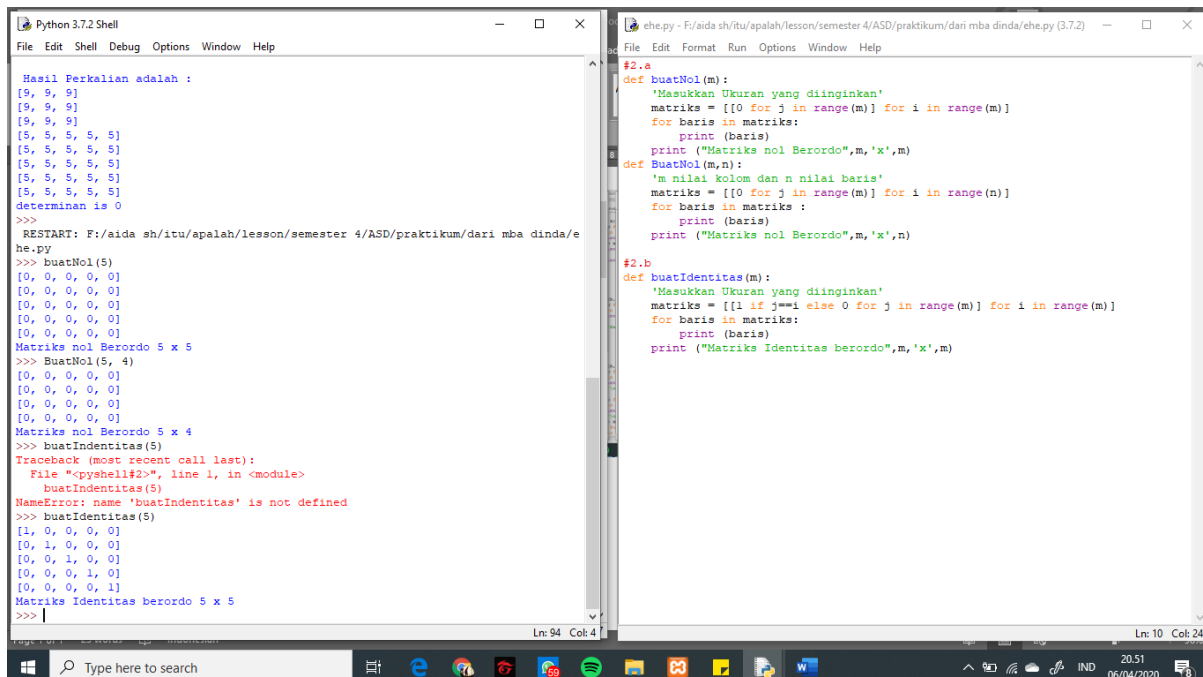


The screenshot shows two side-by-side Python 3.7.2 Shell windows. The left window displays the output of a script named 'he.py', which prints various matrices and their consistency. The right window shows the source code of 'ehe.py', which defines functions for matrix addition, multiplication, and determinant calculation.

```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
RESTART: F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/dari mba dinda/e
he.py
[4, 4, 4, 4]
[4, 4, 4, 4]
[4, 4, 4, 4]
[4, 4, 4, 4]
[4, 4, 4, 4]
konsisten
[6, 6, 6, 6, 6, 6]
[6, 6, 6, 6, 6, 6]
[6, 6, 6, 6, 6, 6]
[6, 6, 6, 6, 6, 6]
[6, 6, 6, 6, 6, 6]
[6, 6, 6, 6, 6, 6]
[6, 6, 6, 6, 6, 6]
[6, 6, 6, 6, 6, 6]
konsisten
[2, 2]
[2, 2]
[2, 2]
tidak konsisten
[2, 2]
[2, 2]
[2, 2]
[2, 2]
Matriks 4 x 2
[3, 3, 3]
[3, 3, 3]
[3, 3, 3]
Matriks 3 x 3
[1]
[1]
Matriks 2 x 1
[3, 3, 3]
[3, 3, 3]
[3, 3, 3]
+
[3, 3, 3]
[3, 3, 3]
[3, 3, 3]

ehe.py - F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/dari mba dinda/ehe.py (3.7.2)
File Edit Format Run Options Window Help
print('\n', '\t + \n')
c = [[b for i in range(b)] for j in range(k)]
for i in c:
    print(i)
print('\n', 'Hasil Penjumlahan adalah :')
e = b + k
d = [[e for i in range(b)] for j in range(k)]
for i in d:
    print(i)
jumlah(3,3)
#1.d
def kali(b,k):
    a = [[b for i in range(b)] for j in range(k)]
    for i in a:
        print(i)
    print('\n', '\t * \n')
    c = [[b for i in range(b)] for j in range(k)]
    for i in c:
        print(i)
    print('\n', 'Hasil Perkalian adalah :')
    e = b*k
    d = [[e for i in range(b)] for j in range(k)]
    for i in d:
        print(i)
kali(3,3)
#1.e
def determinan(e):
    ''' e panjang dan lebar dari matriks'''
    a = [[e for i in range(e)] for j in range(e)]
    for i in a:
        print(i)
    return "determinan is " + str(0)
print(determinan(5))
```

2. Tugas 2

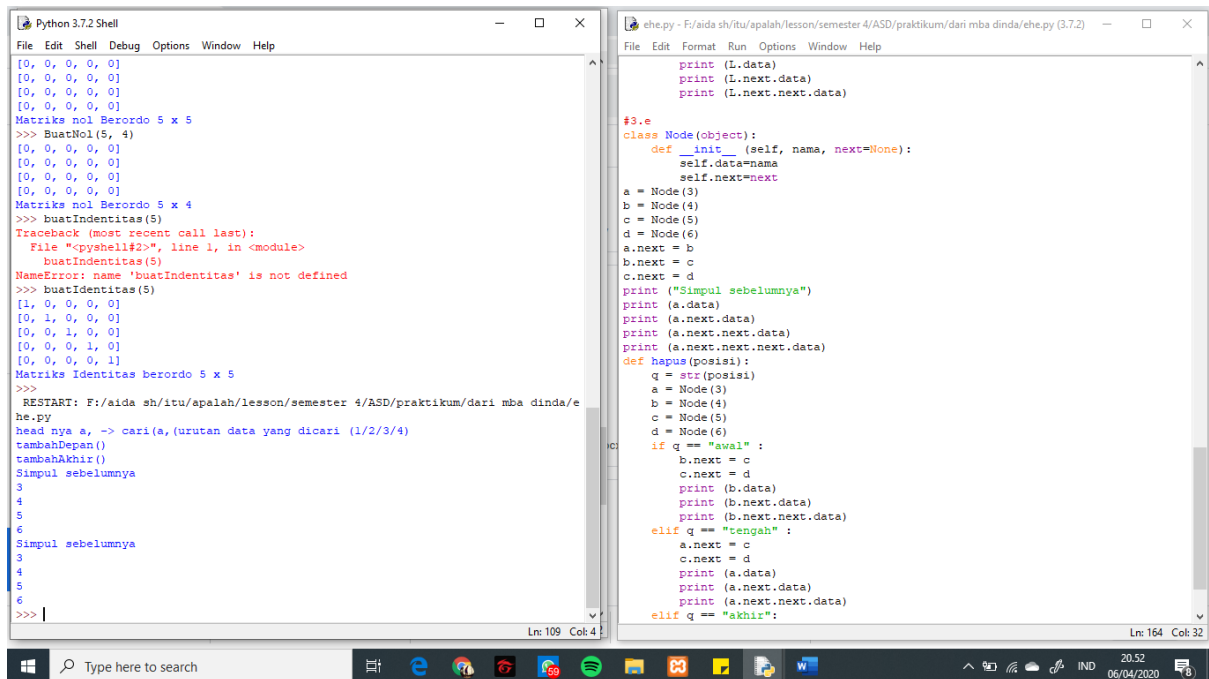


The screenshot shows two side-by-side Python 3.7.2 Shell windows. The left window displays the output of a script named 'he.py', which prints matrices and their determinants. The right window shows the source code of 'ehe.py', which defines functions for creating matrices and identifying their order. The left window also shows a traceback error for a function that is not defined.

```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
RESTART: F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/dari mba dinda/e
he.py
Hasil Perkalian adalah :
[9, 9, 9]
[9, 9, 9]
[9, 9, 9]
[9, 9, 9]
[5, 5, 5, 5, 5]
[5, 5, 5, 5, 5]
[5, 5, 5, 5, 5]
[5, 5, 5, 5, 5]
[5, 5, 5, 5, 5]
[5, 5, 5, 5, 5]
determinan is 0
>>>
RESTART: F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/dari mba dinda/e
he.py
>>> buatNol(5)
[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]
Matriks nol Berordo 5 x 5
>>> buatNol(5, 4)
[0, 0, 0, 0, 0]
[0, 0, 0, 0, 0]
[0, 0, 0, 0, 0]
[0, 0, 0, 0, 0]
Matriks nol Berordo 5 x 4
>>> buatIdentitas(5)
Traceback (most recent call last):
  File "<pyshell#2>", line 1, in <module>
    buatIdentitas(5)
  File "F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/dari mba dinda/e
    NameError: name 'buatIdentitas' is not defined
>>> buatIdentitas(5)
[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]
Matriks Identitas berordo 5 x 5
>>>

ehe.py - F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/dari mba dinda/ehe.py (3.7.2)
File Edit Format Run Options Window Help
#2.a
def buatNol(m):
    'Masukkan Ukuran yang diinginkan'
    matriks = [[0 for j in range(m)] for i in range(m)]
    for baris in matriks:
        print(baris)
    print("Matriks nol Berordo",m,'x',m)
def buatIdentitas(m,n):
    'm nilai kolom dan n nilai baris'
    matriks = [[0 for j in range(m)] for i in range(n)]
    for baris in matriks:
        print(baris)
    print("Matriks nol Berordo",m,'x',n)
#2.b
def buatIdentitas(m):
    'Masukkan Ukuran yang diinginkan'
    matriks = [[1 if j==i else 0 for j in range(m)] for i in range(m)]
    for baris in matriks:
        print(baris)
    print("Matriks Identitas berordo",m,'x',m)
```

3. Tugas 3



```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
[0, 0, 0, 0, 0]
[0, 0, 0, 0, 0]
[0, 0, 0, 0, 0]
[0, 0, 0, 0, 0]
Matriks nol Berordo 5 x 5
>>> BuatNol(5, 4)
[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]
Matriks nol Berordo 5 x 4
>>> buatIdentitas(5)
Traceback (most recent call last):
  File "<pyshell#2>", line 1, in <module>
    buatIdentitas(5)
NameError: name 'buatIdentitas' is not defined
>>> buatIdentitas(5)
[[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]]
Matriks Identitas berordo 5 x 5
>>>
RESTART: F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/dari mba dinda/e
he.py
head nya a, -> cari(a, (urutan data yang dicari (1/2/3/4))
tambahDepan()
tambahAkhir()
Simpul sebelumnya
3
4
5
6
Simpul sebelumnya
3
4
5
6
>>> |

Ln: 109 Col: 4

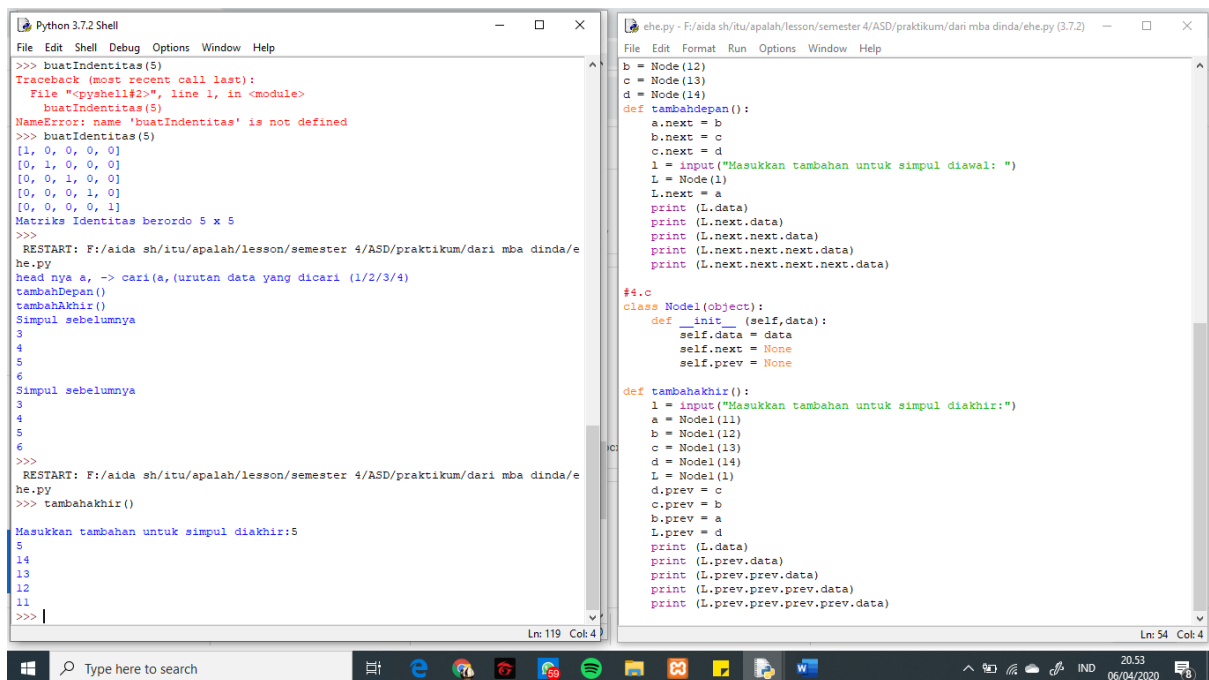
ehe.py - F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/dari mba dinda/ehe.py (3.7.2)
File Edit Format Run Options Window Help
print (L.data)
print (L.next.data)
print (L.next.next.data)

#3.e
class Node(object):
    def __init__(self, nama, next=None):
        self.data=nama
        self.next=next

a = Node(3)
b = Node(4)
c = Node(5)
d = Node(6)
a.next = b
b.next = c
c.next = d
print ("Simpul sebelumnya")
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 = Node(3)
    b = Node(4)
    c = Node(5)
    d = Node(6)
    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":
        |

Ln: 164 Col: 32
```

4. Tugas 4



```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
>>> buatIdentitas(5)
Traceback (most recent call last):
  File "<pyshell#2>", line 1, in <module>
    buatIdentitas(5)
NameError: name 'buatIdentitas' is not defined
>>> BuatIdentitas(5)
[[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]]
Matriks Identitas berordo 5 x 5
>>>
RESTART: F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/dari mba dinda/e
he.py
head nya a, -> cari(a, (urutan data yang dicari (1/2/3/4))
tambahDepan()
tambahAkhir()
Simpul sebelumnya
3
4
5
6
Simpul sebelumnya
3
4
5
6
>>>
RESTART: F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/dari mba dinda/e
he.py
>>> tambahAkhir()
Masukkan tambahan untuk simpul diakhir:5
5
14
13
12
11
>>> |

Ln: 119 Col: 4

ehe.py - F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/dari mba dinda/ehe.py (3.7.2)
File Edit Format Run Options Window Help
b = Node(12)
c = Node(13)
d = Node(14)
def tambahDepan():
    a.next = b
    b.next = c
    c.next = d
    l = input("Masukkan tambahan untuk simpul diawal: ")
    L = Node(l)
    L.next = a
    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)

#4.c
class Node(object):
    def __init__(self,data):
        self.data = data
        self.next = None
        self.prev = None

def tambahAkhir():
    l = input("Masukkan tambahan untuk simpul diakhir:")
    a = Node(11)
    b = Node(12)
    c = Node(13)
    d = Node(14)
    L = Node(l)
    d.prev = c
    c.prev = b
    b.prev = a
    L.prev = d
    print (L.data)
    print (L.prev.data)
    print (L.prev.prev.data)
    print (L.prev.prev.prev.data)
    print (L.prev.prev.prev.prev.data)
    |

Ln: 54 Col: 4
```