MODUL 3

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Nomor 1A

```
_ 🗆 X
Nomer1_a.py - D:\Kuliah semester 4\Praktikum /
                                                                            Python 3.7.0 Shell
File Edit Format Run Options Window Help
                                                File Edit Shell Debug Options Window Help
a = [[1,2],[3,4]]
                                                Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.
b = [[5,6],[7,8]]
c = [[12,3,"x","y"],[12,33,4]]
                                               1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information
d = [[3,4],[2,4],[1,5]]
e = [[5,6,7],[7,8,9]]
                                                === RESTART: D:\Kuliah semester 4\Praktikum Algostruk D\Modul3\
f = [[1,2,3],[4,5,6],[7,8,9]]
                                                Nomer1 a.py ==
                                                >>> cekKonsis(a)
def cekKonsis(n):
                                                matriks konsisten
    x = len(n[0])
                                                >>> cekKonsis(c)
    z = 0
                                                matrik tidak konsisten
     for i in range(len(n)):
                                                >>>
        if (len(n[i]) == x):
    z+=1
if(z == len(n)):
        print("matriks konsisten")
    else:
        print("matrik tidak konsisten")
```

Nomor 1B

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                                                                           Python 3.7.0 Shell
Nomer1_b.py - D:\Kuliah semester 4\Praktikum Algostr
                                                   la
File Edit Format Run Options Window Help
                                                    File Edit Shell Debug Options Window Help
                                                    Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47)
def ordo(n):
                                                    [MSC v.1914 32 bit (Intel)] on win32
    x,y = 0,0
                                                    Type "copyright", "credits" or "license()" for more info
    for i in range(len(n)):
        x+=1
                                                    rmation.
        y = len(n[i])
    print("mempunyai ordo "+str(x)+"x"+str(y))
                                                    === RESTART: D:\Kuliah semester 4\Praktikum Algostruk D\
                                                    Modul3\Nomer1_b.py ==
a = [[1,2],[3,4]]
                                                    >>> ordo(b)
b = [[5,6],[7,8]]
                                                    mempunyai ordo 2x2
c = [[12,3,"x","y"],[12,33,4]]
d = [[3,4],[2,4],[1,5]]
                                                    >>> ordo(c)
                                                    mempunyai ordo 2x3
e = [[5,6,7],[7,8,9]]
                                                    >>>
f = [[1,2,3],[4,5,6],[7,8,9]]
```

Nomor 1C

```
Nomer1_c.py - D:\Kuliah semester 4\Praktikum Algostruk D\
                                                                                                                                                                  Python 3.7.0 Shell
                                                                                                   File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
1)] on win32
Type "copyright", "credits" or "license()" for more information.
 File Edit Format Run Options Window Help
        jumlah(n,m):
       Jumin(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)]
                                                                                                     >>> === RESTART: D:\Kuliah semester 4\Praktikum Algostruk D\Modul3\Nomer1_c.py ===
                                                                                                    >>> jumlah(a,b)
                                                                                                   >>> jumiah(a,b)
ukuran sama
[[6, 8], [10, 12]]
>>> jumlah(c,d)
ukuran beda
>>> |
        if (len(n) ==len(m)):
       j in range(len(n[i])):
xy[i][j] = n[i][j] + m[i][j]
               print(xv)
       else:
             print("ukuran beda")
 \begin{aligned} a &= & [[1,2],[3,4]] \\ b &= & [[5,6],[7,8]] \\ c &= & [[12,3],"x","y"],[12,33,4]] \\ d &= & [[3,4],[2,4],[1,5]] \\ e &= & [[5,6,7],[7,8,9]] \\ f &= & [[1,2,3],[4,5,6],[7,8,9]] \end{aligned}
```

Nomor 1D

```
_ 🗆 X
Nomer1_d.py - D:\Kuliah semester 4\Praktikum Algostruk D\Modul3\Nc
                                                                                                 Python 3.7.0 Shell
                                                                          File Edit Shell Debug Options Window Help
 File Edit Format Run Options Window Help
                                                                          Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06
 def kali(n,m):
     aa = 0
x,y = 0,0
                                                                          :47) [MSC v.1914 32 bit (Intel)] on win32
                                                                          Type "copyright", "credits" or "license()" for more
     for i in range(len(n)):
    x+=1
                                                                          information.
                                                                          >>>
         y = len(n[i])
                                                                          === RESTART: D:\Kuliah semester 4\Praktikum Algostr
     v, w = 0, 0
                                                                          uk D\Modul3\Nomer1_d.py ===
     for i in range(len(m)):
    v+=1
                                                                          >>> kali(zz,zx)
                                                                          bisa dikalikan
          w = len(m[i])
                                                                          [[14], [14]]
                                                                          >>> kali(a,zx)
                                                                          tidak memenuhi syarat
     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]]
 a = [[1,2],[3,4]]
b = [[5,6],[7,8]]
c = [[12,3,"x","y"],[12,33,4]]
d = [[3,4],[2,4],[1,5]]
e = [[5,6,7],[7,8,9]]

f = [[1,2,3],[4,5,6],[7,8,9]]
```

Nomor 1E

```
Nomer1_e.py - D:\Kuliah semester 4\Praktikum Algostruk D\Modul3\Nomer1_e.p... -
                                                                                                                                                                                                           Python 3.7.0 Shell
File Edit Format Run Options Window Help
                                                                                                                                                                 File Edit Shell Debug Options Window Help
 def determHitung(A, total=0):
    x = len(A[0])
    z = 0
                                                                                                                                                                 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 info
         for i in range(len(A)):
    if (len(A[i]) == x):
        z+=1
if(z == len(A)):
                                                                                                                                                                 rmation.
                                                                                                                                                                 Modul3\Nomer1_e.py =
                z == len(A)):
if(x==len(A)):
indices = list(range(len(A)))
if len(A) == 2 and len(A[01) == 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)
                                                                                                                                                                 >>> determHitung(z,x)
                                                                                                                                                                 >>> determHitung(e,f)
'tidak bisa dihitung determinan, bukan matrix bujursangk
                                                                                                                                                                 ar'
>>>
                                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 = determRitung(As)
total += sign * A[0][fc] * sub_det
                         return "tidak bisa dihitung determinan, bukan matrix bujursangkar"
                 return "tidak bisa dihitung determinan, bukan matrix bujursangkar"
         return total
a = [[1,2],[3,4]]

b = [[5,6],[7,8]]

c = [[12,3,"x","y"],[12,33,4]]

d = [[3,4],[2,4],[1,5]]

f = [[5,6,7],[7,8,9]]

f = [[1,2,3],[4,5,6],[7,8,9]]

z = [[3,1],[2,5]]

x = [[1,2,1],[3,3,1],[2,1,2]]

v = [[1,2,1],[3,3,1],[2,1,2]]

r = [[1,2,3,4,6],[3,2,-3,1],[4,0,5,1],[2,3,-1,4]]

r = [[10,23,45,12,13],[1,2,3,4,5],[1,2,3,4,6],[4,2,3,4,8],[1,4,5,6,10]]
```

Nomor 2 A&B

```
File Edit Format Run Options Window Help

def buatNol(n,m=None):
    if(m=None):
        if(m=mone):
        print("membuat matriks 0 dengan ordo "+str(n)+"x"+str(m))
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("membuat matriks identitas dengan ordo"+str(m)+"x"+str(m))
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
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def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

def buatIdentitas(m):
    print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

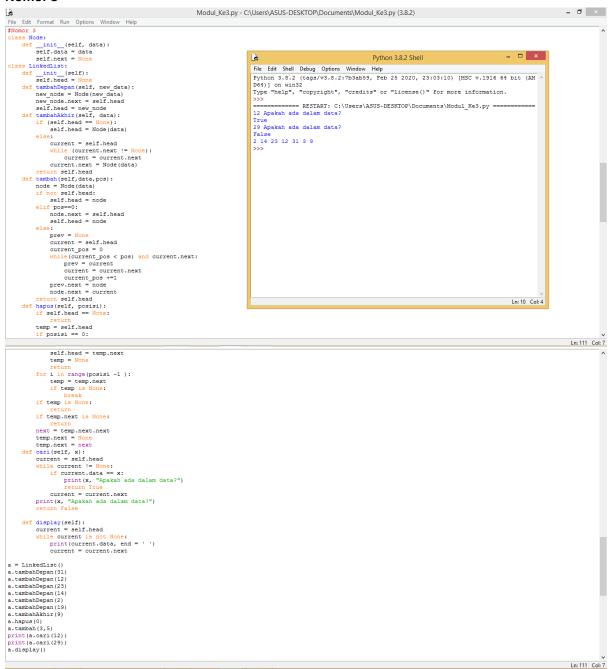
print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in range(m)] for i in range(m)]

print("lo for j in ra
```

Nomor 3



Nomor 4

