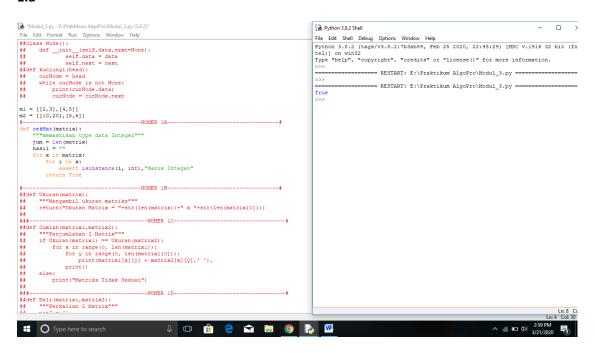
Nama : Suryo Pramuda Wicaksono

NIM : L200180053

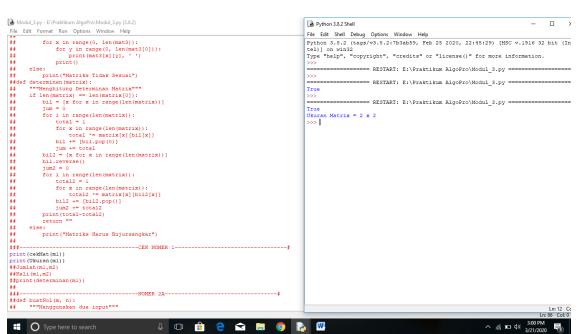
Kelas : C

### Soal – Soal untuk Mahasiswa Modul 3

# 1.a



## b.



```
Modul_3.py - E:\Praktikum AlgoPro\Modul_3.py (3.8.2)
                                                                                                                                      Python 3.8.2 Shell
                                                                                                                                                                                                                                         − □
 File Edit Format Run Options Window Help
                                                                                                                                      File Edit Shell Debug Options Window Help
def cekMat(matrix):
    """memastikan typ
    jum = len(matrix)
    hasil = ""
                                                                                                                                     Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
                           type data Integer"""
       hasil = ""
for x in matrix:
    for i in x:
        assert isinstance(i, int),"Harus Integer"
        return True
                                                                                                                                               RESTART: E:\Praktikum AlgoPro\Modul_3.py
                                                                                                                                               ======== RESTART: E:\Praktikum AlgoPro\Modul_3.py ========
                                                                                                                                      True
                                           -----NOMER 1B-----
                                                                                                                                                    ====== RESTART: E:\Praktikum AlgoPro\Modul 3.py ======
 def Ukuran (matrix):
      Ukuran (matrix):
"""Mengambil ukuran matriks"""
return("Ukuran Matrix = "+str(len(matrix))+" x "+str(len(matrix[0])))
                                                                                                                                      Ukuran Matrix = 2 x 2
                                                                                                                                      VKKIER RESTART: E:\Praktikum AlgoPro\Modul_3.py -----
NOMER 10
                                                                                                                                       Jkuran Matrix = 2 x 2
                                                                                                                                      9
11
                                                                                                                                      >>> [
            print("Matriks Tidak Sesuai")
##def Kali (matrix1, matrix2):
## """Perkalian 2 Matrix"""
## mat3 = []
## for x in range(0, len(matrix1)):
## for y in range(0, len(matrix1)):
## for y in range(0, len(matrix1)):
## for y in range(0, len(matrix1[0])):
## total = 0
## for z in range(0, len(matrix1[x][
## total = total + (matrix1[x][
## row.append(total)
## for x in range(0, len(mat3)):
## for y in range(0, len(mat3)):
## for y in range(0, len(mat3)):
## for y in range(0, len(mat3)):
                                          ----NOMER 1D----
                    cotal = 0
for z in range(0, len(matrix1)):
    total = total + (matrix1[x][z] * matrix2[z][y])
row.append(total)
mat3.append(row)
                                                                                                                                                                                                                                                 Ln: 22 Co
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                                                                                                                       Type here to search
                                                                  ₽ (C)
                                                                                   ^ (E 🗖 🗘)
```

### d.

```
Modul_3.py - E:\Praktikum AlgoPro\Modul_3.py (3.8.2)
                                                                                                                           Python 3.8.2 Shell
                                                                                                                                                                                                                            П
 File Edit Format Run Options Window Help
                                                                                                                           File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
                                                                                                                           Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                                           >>>
------ RESTART: E:\Praktikum AlgoPro\Modul_3.py
                                                                                                                                      RESTART: E:\Praktikum AlgoPro\Modul_3.py ====
                                                                                                                           True
          print("Matriks Tidak Sesuai")
                                                                                                                                        ----- RESTART: E:\Praktikum AlgoPro\Modul 3.py -----
                                           ----NOMER 1D---
                                                                                                                           True
 def Kali(matrix1,matrix2):
    """Perkalian 2 Matrix"""
                                                                                                                           Ukuran Matrix = 2 x 2
     mat3 = []
                                                                                                                            ----- RESTART: E:\Praktikum AlgoPro\Modul_3.py ------
      if Ukuran(matrix1) == Ukuran(matrix2):
                                                                                                                           True
           Ukuran(matrix1) == Ukuran(matrix2):
    for x in range(0, len(matrix1)):
    row = []
    for y in range(0, len(matrix1[0])):
        total = 0
        for z in range(0, len(matrix1]):
            total = total + (matrix1[x][z] * matrix2[z][y])
        row.append(total)
    mail.append(row)
                                                                                                                           Ukuran Matrix = 2 x 2
                                                                                                                           9
11
                 mat3.append(row)
                                                                                                                                              ===== RESTART: E:\Praktikum AlgoPro\Modul 3.py ========
           for x in range(0, len(mat3)):
                                                                                                                           True
                 for y in range(0, len(mat3[0])):
    print(mat3[x][y], ' ')
                                                                                                                           Ukuran Matrix = 2 x 2
                 print()
else:
    print("Matriks Tidak Sesuai")

### def determinan (matrix):

## """Menghitung Determinan Matrix"""

## if len(matrix) == len(matrix(0)):

## bil = (x for x in range(len(matrix)))

## jum = 0

## for i in range(len(matrix)):

## roral = 1
 ** ** ** ** ** **
                   cotal = 1
for x in range(len(matrix)):
   total *= matrix[x][bil[x]]
bil += [bil.pop(0)]
jum += total
                                                                                                                           110
                                                                                                                           >>>
                                                                                                                                                                                                                         Ln: 38 Co
                                                                                                                                                                                                   ^ ( □ 4)) 3:18 PM
                                                             ↓ □ â ê <  □ □ Ø </p>
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```

```
else:

print("Matriks Tidak Sesuai")

def determinan(matriks):

""Menghitung Determinan Matrix""

if len(matrix) = len(matrix(0)):

bil = [x for x in range(len(matrix))]

jum = 0

for i in range(len(matrix)):

total = 1

for x in range(len(matrix)):

total = bil.pop(0)]

jum = total

bil = [x for x in range(len(matrix)):

total = matrix[x][bil[x]]

bil := [bil.pop(0)]

jum = total

bil2 = [x for x in range(len(matrix))]

bil.reverse()

jum2 = 0

for i in range(len(matrix)):

total2 = 1

for x in range(len(matrix)):

total2 = 1

for x in range(len(matrix)):

total2 = 2

print(total-total2)

return ""

else:

print("Matriks Harus Busanters)
Modul 3.pv - E:\Praktikum AlgoPro\Modul 3.pv (3.8.2)
                                                                                                                                                                                     Python 3.8.2 Shell
                                                                                                                                                                                                                                                                                                                            - 0
                                                                                                                                                                                     File Edit Shell Debug Options Window Help
                                                                                                                                                                                     9
11
                                                                                                                                                                                                                  ==== RESTART: E:\Praktikum AlgoPro\Modul 3.pv ====
                                                                                                                                                                                     True
                                                                                                                                                                                      Ukuran Matrix = 2 x 2
                                                                                                                                                                                     110
                                                                                                                                                                                                     ----- RESTART: E:\Praktikum AlgoPro\Modul_3.py ------
                                                                                                                                                                                     True
Ukuran Matrix = 2 x 2
               print("Matriks Harus Bujursangkar")
  print(cekMat(ml))
                                                                                                                                                                                     9
11
  print (Ukuran (ml))
  Jumlah (ml.m2)
                                                                                                                                                                                     35
58
  Kali(ml.m2)
  print (determinan (ml))
                               -----NOMER 2A--
 ###def buatNol(m, n):
## """Menggunakan dua input"""
## matrix = [[0 for x in range(m)] for i in range(n)]
## print(matrix)
##
                                                                                                                                                                                      >>> 
 ##def buatNol2(m):
   Type here to search
                                                                                          ₽ © <u></u>
                                                                                                                                         ^ (E D 1)
```

### 2.a

```
Modul_3.py - E:\Praktikum AlgoPro\Modul_3.py (3.8.2)
Python 3.8.2 Shell
                                                                                                                               - - >
                                                                        File Edit Shell Debug Options Window Help
                                                                             ======= RESTART: E:\Praktikum AlgoPro\Modul_3.py =========
                                                                         Ukuran Matrix = 2 x 2
12
23
##Kali(ml.m2)
                                                                        9
11
##print(determinan(ml))
                       ____NOMER 23____
""Menggunakan dua input""
matrix = [[0 for x in range(m)] for i in range(n)]
print(matrix)
def buatNol2(m):
     "Menggunakan satu input"""
                                                                                    RESTART: E:\Praktikum AlgoPro\Modul 3.py
   n = m
matrix = [[0 for x in range(m)] for i in range(n)]
                                                                        True
                                                                         Ukuran Matrix = 2 x 2
   print(matrix)
                      -----NOMER 2B-----
==== RESTART: E:\Praktikum AlgoPro\Modul_3.py =====
                                                                        [[0, 0, 0], [0, 0, 0], [0, 0, 0]]
[[0, 0, 0], [0, 0, 0], [0, 0, 0]]
>>>|
                                                                                                                                Ln: 60 Cc
Type here to search
                                    ↓ □ â ê < □ □ Ø </p>
                                                                                                                   ^ (E ■ Φ)
```

