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NIM : L200180212

Kelas : Praktikum Algoritma dan Struktur Data H

Modul 1

```
Python 2.7.15 Shell
                               nomer2.py - D:/pypy/nomer2.py (2.7.15)
                                                                                                       \times
File Edit Shell Debug Options Windo File Edit Format Run Options Window Help
Python 2.7.15 (v2.7.15:ca079a3e
tel)] on win32
Type "copyright", "credits" or
                               def gambarlahPersegiEmpat(a,b):
>>>
====== RESTA
                                  for i in range (a):
if i==0 or i==a-1:
----- RESTA
                                       print (b * '@')
>>> gambarlahPersegiEmpat(4,5)
                                      else:
00000
                                          print ('@' + ' ' * (b-2) + '@')
00000
>>>
```

Nomer 3A

```
Python 2.7.15 Shell
                             🌛 nomer3a.py - D:/pypy/nomer3a.py (2.7.15)
                                                                                              File Edit Shell Debug Options Window
                             File Edit Format Run Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3
tel)] on win32
Type "copyright", "credits" or "l
                              def jumlahHurufVokal(huruf):
====== RESTART
                                 vokal= "AIUEOaiueo"
>>>
                                 a=0
hasil=0
>>> gambarlahPersegiEmpat(4,5)
                                 for i in huruf:
00000
                                    if i in vokal:
                                       a += len(i)
00000
                                 a += 0
hasil = len (huruf),a
====== RESTART:
                                 return hasil
>>> jumlahHurufVokal('surakarta')
(9, 4)
>>>
```

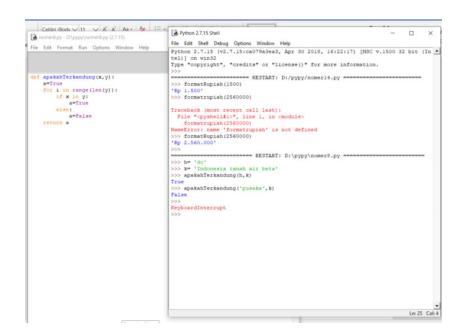
Nomer 3B

```
Python 2.7.15 Shell
                                    nomer3b.py - D:/pypy/nomer3b.py (2.7.15)
                                                                                                   - 🗆
File Edit Shell Debug Options Window Help File Edit Format Run Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Ap.
tel)] on win32
Type "copyright", "credits" or "licen
                                    def jumlahHurufKonsonan(huruf):
>>>
----- RESTART: D:
                                       konsonan = "BCDFGHJKLMNPQRSTVWXYZbcdfghjklmnpqrstvwxyz"
====== RESTART: D:
                                       hasil = 0
>>> gambarlahPersegiEmpat(4,5)
                                       for i in huruf:
00000
                                          if i in konsonan:
                                              b += len(i)
                                          else:
00000
                                       b += 0
hasil = len (huruf), b
>>> RESTART: D:/
                                       return hasil
>>> jumlahHurufVokal('surakarta')
(9, 4)
          ====== RESTART: D:/
>>> jumlahHurufKonsonan('surakarta')
```

```
>>> rerata([1,2,3,4,5])
3
>>> g=[3,4,5,4,3,4,5,2,2,10,11,23]
>>> rerata(g)
6
>>>>
```

```
nomer5.py - D:/pypy/nomer5.py (2.7.15)
                                                Python 2.7.15 Shell
                                                File Edit Shell Debug Options Window Help
File Edit Format Run Options Window Help
                                                Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (In
                                                tel)] on win32
                                                Type "copyright", "credits" or "license()" for more information.
from math import sqrt as sq
                                                ----- RESTART: D:/pypy/nomer5.py -----
def apakahPrima(n):
    n = int (n)
                                                >>> apakahPrima(17)
                                                True
    assert n >= 0
   primaKecil = [2,3,5,7,11]
bukanPrKecil = [0,1,4,6,8,9,10]
                                                >>> apakahPrima(97)
   if n in primaKecil:
return True
                                                >>> apakahPrima(123)
                                                False
    elif n in bukanPrKecil:
                                                >>>
        return False
    else:
        for i in range (2, int(sq(n)) + 1):
           if n%i==0:
        return False
```

```
| Set faktorPrima(a):
| blanganList = [] | loop=1 | loop=
```



```
nomer9.py - D:/pypy/nomer9.py (2.7.15)
                                           Python 2.7.15 Shell
File Edit Format Run Options Window Help File Edit Shell Debug Options Window Help
                                           Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (In
                                           tel)] on win32
                                           Type "copyright", "credits" or "license()" for more information.
                                           >>>
def mencetakkelipatan(a):
                                                        RESTART: D:/pypy/nomer9.py ======
   for i in range(a):
                                           >>> mencetakkelipatan(101)
        if(i<=0):</pre>
        pass
elif(i%3==0 and i%5==0):
        print ("Python UMS")
elif(i%3==0):
print ("Python")
                                           Python
                                          4
UMS
                                           Python
7
        elif(i%5==0):
        print ("UMS")
else :
                                          Python
UMS
11
Python
            print (i)
                                          13
14
Python UMS
16
17
                                          Python
19
UMS
                                          Python
22
23
                                           Python
                                           UMS
                                           26
                                          Python
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                                           Python UMS
31
                                           32
                                          Python
34
                                                                                                                              Ln: 106 Col: 4
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14
nomer11.py - D:/pypy/nomer11.py (2.7.15)
                                                                Python 2.7.15 Shell
                                                                                                                                                File Edit Format Run Options Window Help
                                                                File Edit Shell Debug Options Window Help
                                                                Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (In
                                                                tel)] on win32
Type "copyright", "credits" or "license()" for more information.
def tahunKabisat(tahun):
                                                                                        === RESTART: D:/pypy/nomerll.py ======
   hasil=False
if(tahun%4==0 and tahun%100!=0 and tahun%400!=0):
                                                                >>> tahunKabisat(1896)
                                                                True
        hasil=True
                                                                >>> tahunKabisat(1897)
False
    elif(tahun%100==0 and tahun%400!=0):
        hasil=False
                                                                >>> tahunKabisat(1900)
    elif(tahun%400==0):
                                                                False
       hasil=True
                                                                >>> tahunKabisat(2000)
True
       hasil=False
                                                                >>> tahunKabisat (2004-2096)
True
   return hasil
                                                                >>> tahunKabisat(2100)
False
                                                                >>> tahunKabisat(2400)
True
                                                                >>>
```

```
import random
def tebakkngka():

a = random.randrange(1,101,1)
b = -1
n = 0
print ("Permainan Tebak Angka Bulat antara 1 sampai 100. Coba Tebak."
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nomer13.py - D:/pypy/nomer13.py (2.7.15)
                                                                                                   Python 2.7.15 Shell
File Edit Format Run Options Window Help
                                                                                                  File Edit Shell Debug Options Window Help

Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (In tel)] on win32
                                                                                                   Type "copyright", "credits" or "license()" for more information.
def katakan(bilangan):
    angka=["","Satu","Dua","Tiga","Empat","Lima","Enam","Tujuh",
    "Delapan","Sembilan","Sepuluh","Sebelas"]
    Hasil = ""
                                                                                                                                 === RESTART: D:/pypy/nomer13.py ======
                                                                                                   >>> katakan(1234567)
' Satu Juta Dua Ratus Tiga Puluh Empat Ribu Lima Ratus Enam Puluh Tujuh'
>>> formatRupiah(1500)
     n = int(bilangan)
     if n>=0 and n<=11:
    Hasil = Hasil +angka[n]</pre>
                                                                                                  Traceback (most recent call last):
File "<pyshell#1>", line 1, in <module>
formatRupiah(1500)
NameError: name 'formatRupiah' is not defined
    Hasi1 = nes2 ...
elif n<20:
    Hasi1 = katakan(n % 10) + " Belas"
elif n<100:
    Hasi1 = katakan(n / 10) + " Puluh" + katakan(n%10)
     elif n<200:

Hasil = " Seratus" + katakan(n-100)
     elif n<2000:

Hasil = "Seribu" + katakan(n-1000)

elif n<10000:
          Hasil = katakan(n/1000) + " Ribu" + katakan(n%1000)
     elif n<20000:

Hasil = " Sepuluh Ribu" + katakan(n-10000)
     elif n<100000:

Hasil = katakan(n/10000) + " Puluh" + katakan(n%10000)
     elif n<20000:
Hasil = "Seratus Ribu" + katakan(n-100000)
     elif n<1000000:
           Hasil = katakan(n/100000) + " Ratus" + katakan(n%100000)
     Hasil = Katakan(n/100000) + " Ratus" + And
elif n<2000000:
Hasil = " Satu Juta" + katakan(n-1000000)
     elif n<10000000:
          Hasil = katakan(n/1000000) + " Juta" + katakan(n%1000000)
     elif n==10000000:
Hasil = "Satu Milyar" + katakan(n%10000000)
     else:
     Hasil = "Angka Hanya Sampai Satu Milyar"
return Hasil
                                                                                                                                                                                                          Ln: 13 Col: 4
```

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| Python 2.7.15 Shell | File Edit Format Run Options Window Help | File Edit Shell Debug Options Window Help | File Edit Shell The Laboration of File Edit Shell The Lab
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