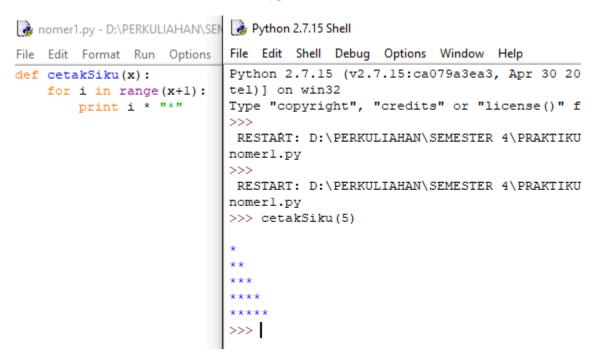
NAMA : BAITY JANNATIKA

NIM : L200180211

KELAS : H / PRAKTIKUM ALGUSTRUK

# NOMER 1



```
nomer2.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALC - Python 2.7.15 Shell
File Edit Format Run Options Window Help
                                               File Edit Shell Debug Options
                                               Python 2.7.15 (v2.7.15:ca0'
def PersegiEmpat(a,b):
                                               tel)] on win32
    for i in range(a):
        if i==0 or i==a-1:
                                               Type "copyright", "credits
            print("@"*b)
                                               >>>
                                                RESTART: D:\PERKULIAHAN\SI
        else:
            print("@" + " " *(b-2) + "@")
                                               nomer2.py
                                               >>> PersegiEmpat(4,5)
                                               00000
                                               00000
```

#### Nomer 3 A

```
nomer3a.py - D:\PERKULIAHAN\SEMES Python 2.7.15 Shell
File Edit Format Run Options Win
                               File Edit Shell Debug Options Window Help
                               Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2
def jumlahHurufVokal(hruf):
                               tel)] on win32
                               Type "copyright", "credits" or "license()"
    vokal= "AIUEOaiueo"
    a=0
                               >>>
    hasil=0
                               RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIK
    for i in hruf:
                               nomer3a.pv
        if i in vokal:
                               >>> k = jumlahHurufVokal("Surakarta")
            a += len(i)
                               >>> k
                               (9, 4)
        else:
            a += 0
                               >>>
    hasil = len (hruf),a
    return hasil
```

```
Nomer 3 B
nomer3b.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211_Modul1...
File Edit Format Run Options Window Help
def jumlahHurufKonsonan(hruf):
    konsonan = "BCDFGHJKLMNPQRSTVWXYZbcdfghjklmnpqrstvwxyz"
    b = 0
    hasil = 0
    for i in hruf:
         if i in konsonan:
             b += len(i)
         else:
             b += 0
    hasil = len (hruf), b
    return hasil
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.150]
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
 RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211 Mo
nomer3b.py
>>> k = jumlahHurufKonsonan("Surakarta")
>>> k
(9, 5)
>>>
```

```
nomer4.py - D:\PERKULIAHAN\SEME! Python 2.7.15 Shell
File Edit Format Run Options W
                             File Edit Shell Debug Options Window Help
                             Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30
def rerata(x):
                             tel)] on win32
                             Type "copyright", "credits" or "license()'
    jumlah = 0
    for i in range(len(x)): >>>
        jumlah += x[i]
                             RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKT:
    jumlah = jumlah/len(x)
                             nomer4.py
    return jumlah
                             >>> rerata([1,2,3,4,5])
                             >>> g = [3,4,5,4,3,4,5,2,2,10,11,23]
                             >>> rerata (g)
                             6
```

```
nomer5.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGO
                                               Python 2.7.15 Shell
File Edit Format Run Options Window Help
                                               File Edit Shell Debug Options Wir
                                               Python 2.7.15 (v2.7.15:ca079a
from math import sqrt as sq
def apakahPrima(n):
                                               tel)] on win32
   n = int (n)
                                               Type "copyright", "credits" (
   assert n >= 0
   primaKecil = [2,3,5,7,11]
                                                RESTART: D:\PERKULIAHAN\SEM
   bukanPrKecil = [0,1,4,6,8,9,10]
                                               nomer5.py
    if n in primaKecil:
                                               >>> apakahPrima(17)
        return True
                                               True
    elif n in bukanPrKecil:
                                               >>> apakahPrima(97)
       return False
                                               True
    else:
                                               >>> apakahPrima(123)
        for i in range (2, int(sq(n)) + 1):
                                               False
            if n%i==0:
                                               >>>
                return False
        return True
```

```
nomer6.py - D:\PERKULIAHAN\SEMESTER 4\PRAI Python 2.7.15 Shell
File Edit Format Run Options Window He File Edit Shell Debug
bawah=2
                                       Python 2.7.15 (v2.7
atas=1000
                                       tel)] on win32
if bawah>=1 and atas>1:
                                       Type "copyright", "
   for x in range(bawah, atas):
                                       >>>
       prima=True
                                       RESTART: D:\PERKUL
        for i in range (2, x):
                                      nomer6.py
            if(x%i==0):
                                       2
                prima=False
                                       3
                                      5
7
        if prima==True:
            print(x)
else:
                                       11
  print ("Bukan Bilangan Prima")
                                       13
                                       17
                                       19
                                       23
                                       29
                                       31
                                       37
                                       41
                                       43
                                       47
                                       53
                                       59
                                       61
                                       67
                                       71
                                       73
                                       79
                                       83
                                       89
                                       97
                                       101
                                       103
                                       107
                                       109
                                       113
                                       127
                                       131
                                       137
                                       139
```

```
nomer7.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKU 🚱 Python 2.7.15 Shell
File Edit Format Run Options Window Help
                                           File Edit Shell Debug Options
def faktorPrima(a):
                                           Python 2.7.15 (v2.7.15:ca
    bilanganList = []
                                           tel)] on win32
    100p=2
                                           Type "copyright", "credit
    while loop <= a:
                                           >>>
        if a%loop == 0:
                                           RESTART: D:\PERKULIAHAN\
             a/=loop
                                           nomer7.pv
            bilanganList.append(loop)
                                           >>> faktorPrima(10)
        else:
                                           [2, 5]
                                           >>> faktorPrima(120)
             loop+=1
    return bilanganList
                                           [2, 2, 2, 3, 5]
                                           >>> faktorPrima(19)
                                           [19]
                                           >>>
```

```
File Edit Format Run Options Wir File Edit Shell Debug Options Window Help
def apakahTerkandung(x,y):
                           Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30
   a=True
                           tel)] on win32
                           Type "copyright", "credits" or "license()
   for i in range(len(y)):
       if x in y:
                           >>>
           a=True
                            RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKT
       else:
                           nomer8.py
                           >>> h = 'do'
           a=False
                           >>> k = 'Indonesia tanah air beta'
   return a
                           >>> apakahTerkandung(h,k)
                           True
                           >>> apakahTerkandung('pusaka',k)
                           False
                           >>>
```

```
nomer9.py - D:\PERKULIAHAN\SEMESTER 4\PF
                                    Python 2.7.15 Shell
File Edit Format Run Options Window
                                     File Edit Shell Debug C
def mencetak(a):
                                     Python 2.7.15 (v2.7.
    for i in range(a):
                                     tel)] on win32
        if(i<=0):</pre>
                                     Type "copyright", "c
            pass
        elif(i%3==0 and i%5==0):
                                     RESTART: D:\PERKULI
            print ("Python UMS")
                                     nomer9.py
        elif(i%3==0):
                                     >>> mencetak(101)
            print ("Python")
        elif(i%5==0):
            print ("UMS")
                                     Python
        else :
            print (i)
                                     UMS
                                     Python
                                     8
                                     Python
                                     UMS
                                     11
                                     Python
                                     13
                                     14
                                     Python UMS
                                     16
                                     17
                                     Python
                                     19
                                     UMS
                                     Python
                                     22
                                     23
                                     Python
                                     UMS
                                     26
                                     Python
                                     28
                                     29
                                     Python UMS
                                     31
                                     32
                                     Python
```

```
nomer10.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211 Modul1 ... —
File Edit Format Run Options Window Help
from math import sqrt as detr
def selesaikanABC(a,b,c):
    a=float(a)
    b=float(b)
    c=float(c)
    D=float(b*2 - 4*a*c)
    if(D<0):
        hasil="Determinan negatif, persamaan tidak mempunyai akar real"
        return hasil
    else:
        xl=(-b + detr(D)) / (2*a)
        x2=(-b + detr(D)) / (2*a)
        return hasil
Python 2.7.15 Shell
                                                                                  X
                                                                            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.
RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211 Modull H ASD\
nomer10.py
>>> selesaikanABC(1,2,3)
'Determinan negatif, persamaan tidak mempunyai akar real'
>>>
```

```
nomer11.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L2001 🚱 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, Ap
def tahunKabisat(tahun):
                                                         tel)] on win32
   hasil=False
    if(tahun%4==0 and tahun%100!=0 and tahun%400!=0):
                                                        Type "copyright", "credits" or "licen
        hasil=True
                                                         RESTART: D:\PERKULIAHAN\SEMESTER 4\P
    elif(tahun%100==0 and tahun%400!=0):
                                                        nomer11.py
        hasil=False
                                                        >>> tahunKabisat(1896)
    elif(tahun%400==0):
                                                        True
        hasil=True
                                                        >>> tahunKabisat(1897)
    else:
        hasil=False
                                                        False
                                                        >>> tahunKabisat(1900)
   return hasil
                                                        False
                                                        >>> tahunKabisat(2000)
                                                        True
                                                        >>> tahunKabisat(2004)
                                                        True
                                                        >>> tahunKabisat(2100)
                                                         False
                                                         >>> tahunKabisat(2400)
                                                        True
                                                        >>>
```

```
nomer12.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211_Modul1_... —
File Edit Format Run Options Window Help
import random
def tebakAngka():
   a = random.randrange(1,101,1)
   b = -1
   n = 0
   print ("Permainan Tebak Angka")
   print ("Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.")
   while a != b :
        n = n + 1
       b = int (input ("Masukkan Tebakan ke- " + str(n) + ":> "))
           print ("Itu Terlalu Kecil")
        elif b > a :
           print ("Itu Terlalu Besar")
        else :
            print("Ya. Anda Benar.")
            break
Python 2.7.15 Shell
                                                                           Х
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.
RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211 Modul1 H ASD\
nomer12.py
>>> tebakAngka()
Permainan Tebak Angka
Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.
Masukkan Tebakan ke- 1:> 78
Itu Terlalu Kecil
Masukkan Tebakan ke- 2:> 100
Itu Terlalu Besar
Masukkan Tebakan ke- 3:> 90
Itu Terlalu Besar
Masukkan Tebakan ke- 4:> 85
Ya. Anda Benar.
>>>
```

```
nomer13.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211_Modul1_..
                                                                        Python 2.7.15 Shell
                                                                        File Edit Shell Debug Options Window Help
File Edit Format Run Options Window Help
def katakan(bilangan):

angka=["","Satu","Dua","Tiga","Empat","Lima","Enam","Tujuh",

"Delapan","Sembilan","Sepuluh","Sebelas"]

Hasil = " "
                                                                        Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 :
                                                                        tel)] on win32
                                                                        Type "copyright", "credits" or "license()" for more information.
    n = int(bilangan)
                                                                         RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211 Mode
    if n>=0 and n<=11:
    Hasil = Hasil +angka[n]</pre>
                                                                        nomer13.py
                                                                        Nome-13-by
>> katakan(3125750)
' Tiga Juta Seratus Ribu Dua Puluh Lima Ribu Tujuh Ratus Lima Puluh '
    elif n<20:
    Hasil = katakan(n % 10) + " Belas"</pre>
                                                                        >>>
    elif n<100:
         Hasil = katakan(n / 10) + " Puluh" + katakan(n%10)
    elif n<200:
Hasil = " Seratus" + katakan(n-100)
    elif n<1000:
         Hasil = katakan(n/100) + "Ratus" + katakan(n%100)
    elif n<2000:
Hasil = " Seribu" + katakan(n-1000)
    elif n<10000:
        Hasil = katakan(n/1000) + " Ribu" + katakan(n%1000)
    elif n<100000:
        Hasil = katakan(n/10000) + "Puluh" + katakan(n%10000)
    elif n<200000:
         Hasil = " Seratus Ribu" + katakan(n-100000)
    elif n<1000000:
         Hasil = katakan(n/100000) + " Ratus" + katakan(n%100000)
    elif n<10000000:
        Hasil = katakan(n/1000000) + " Juta" + katakan(n%1000000)
    elif n==10000000:
        Hasil = "Satu Milyar" + katakan(n%10000000)
        Hasil = "Angka Hanya Sampai Satu Milyar"
                                                                                                                             On-Screen Keyboard
    return Hasil
```

```
nomer14.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L2
                                                        Python 2.7.15 Shell
File Edit Format Run Options Window Help
                                                        File Edit Shell Debug Options Window
def formatRupiah (bilangan):
                                                       Python 2.7.15 (v2.7.15:ca079a3ea3
    a = str (bilangan)
                                                       tel)] on win32
                                                       Type "copyright", "credits" or "l
    if len(a) <= 3:
         return "Rp " + a
                                                       >>>
    else :
                                                        RESTART: D:\PERKULIAHAN\SEMESTEF
         y = a[-3:]
                                                       nomer14.py
                                                       >>> formatRupiah(1500)
         z = a[:-3]
         return formatRupiah(z) + "." + y
                                                       'Rp 1.500'
         print ("Rp ") + formatRupiah(z) + "." +y
                                                       >>> formatRupiah (2560000)
                                                       'Rp 2.560.000'
                                                       >>>
```