NAMA : Fawwaz Haidar

NIM : L200183143

KELAS : H / Prak Algostruk

NOMER1

nomer1.py - D:\PERKULIAHAN\SEM

File Edit Format Run Options

```
def cetakSiku(x):
    for i in range(x+1):
        print i * "*"
```

Python 2.7.15 Shell

File Edit Shell Debug Options Window Help

```
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 20
tel)] on win32
Type "copyright", "credits" or "license()" f
>>>
 RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKU
nomer1.py
>>>
 RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKU
nomer1.py
>>> cetakSiku(5)

*
**
***
****
*****
>>>
```

NOMER2

nomer2.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM AL

File Edit Format Run Options Window Help

```
def PersegiEmpat(a,b):
    for i in range(a):
        if i==0 or i==a-1:
            print("@"*b)
        else:
            print("@" + " " *(b-2) + "@")
```

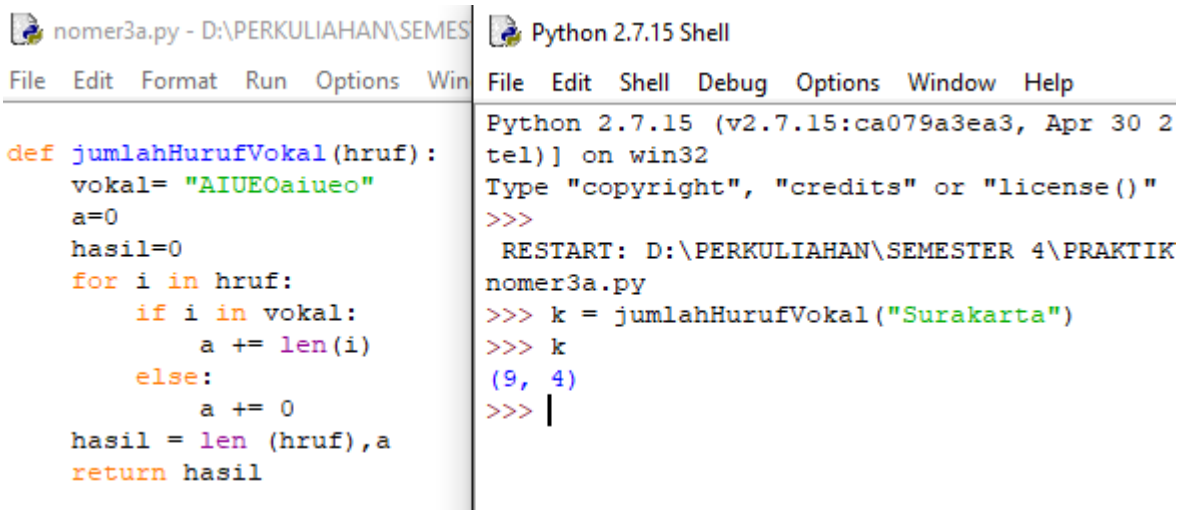
Python 2.7.15 Shell

File Edit Shell Debug Options

```
Python 2.7.15 (v2.7.15:ca0
tel)] on win32
Type "copyright", "credits
>>>
 RESTART: D:\PERKULIAHAN\S
nomer2.py
>>> PersegiEmpat(4,5)
@@@@@
@   @
@   @
@@@@@
>>>
```

NOMER 3

Nomer 3A



nomer3a.py - D:\PERKULIAHAN\SEMES

File Edit Format Run Options Win

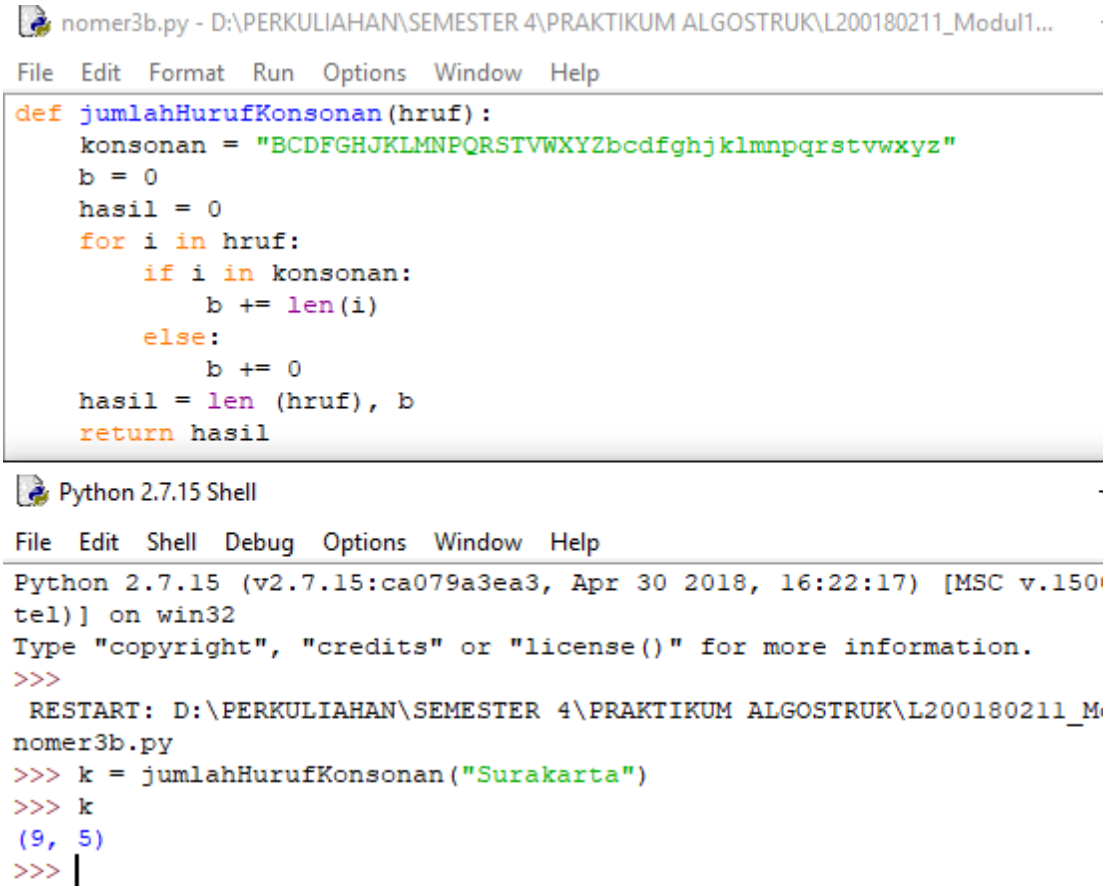
```
def jumlahHurufVokal(hruf):
    vokal= "AIUEOaiueo"
    a=0
    hasil=0
    for i in hruf:
        if i in vokal:
            a += len(i)
        else:
            a += 0
    hasil = len (hruf),a
    return hasil
```

Python 2.7.15 Shell

File Edit Shell Debug Options Window Help

```
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2
tel)] on win32
Type "copyright", "credits" or "license()"
>>>
 RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIK
nomer3a.py
>>> k = jumlahHurufVokal("Surakarta")
>>> k
(9, 4)
>>>
```

Nomer 3B



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_M
nomer3b.py
>>> k = jumlahHurufKonsonan("Surakarta")
>>> k
(9, 5)
>>>
```

NOMER 4

nomer4.py - D:\PERKULIAHAN\SEMES

File Edit Format Run Options W

```
def rerata(x):
    jumlah = 0
    for i in range(len(x)):
        jumlah += x[i]
    jumlah = jumlah/len(x)
    return jumlah
```

Python 2.7.15 Shell

File Edit Shell Debug Options Window Help

```
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30
tel)] on win32
Type "copyright", "credits" or "license()"
>>>
 RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTI
nomer4.py
>>> rerata([1,2,3,4,5])
3
>>> g = [3,4,5,4,3,4,5,2,2,10,11,23]
>>> rerata (g)
6
>>>
```

NOMER 5

nomer5.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGO

File Edit Format Run Options Window Help

```
from math import sqrt as sq
def apakahPrima(n):
    n = int (n)
    assert n >= 0
    primaKecil = [2,3,5,7,11]
    bukanPrKecil = [0,1,4,6,8,9,10]
    if n in primaKecil:
        return True
    elif n in bukanPrKecil:
        return False
    else:
        for i in range (2, int(sq(n)) + 1):
            if n%i==0:
                return False
        return True
```

Python 2.7.15 Shell

File Edit Shell Debug Options Wi

```
Python 2.7.15 (v2.7.15:ca079a
tel)] on win32
Type "copyright", "credits" o
>>>
 RESTART: D:\PERKULIAHAN\SEME
nomer5.py
>>> apakahPrima(17)
True
>>> apakahPrima(97)
True
>>> apakahPrima(123)
False
>>>
```

NOMER 6

nomer6.py - D:\PERKULIAHAN\SEMESTER 4\PRA

File Edit Format Run Options Window He

```
bawah=2
atas=1000
if bawah>=1 and atas>1:
    for x in range(bawah,atas):
        prima=True
        for i in range(2,x):
            if(x%i==0):
                prima=False
        if prima==True:
            print(x)
else:
    print("Bukan Bilangan Prima")
```

Python 2.7.15 Shell

File Edit Shell Debug

```
Python 2.7.15 (v2.7
tel)] on win32
Type "copyright", "
>>>
 RESTART: D:\PERKUL
nomer6.py
2
3
5
7
11
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
```

NOMER 7

nomer7.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKU

File Edit Format Run Options Window Help

```
def faktorPrima(a):
    bilanganList = []
    loop=2
    while loop <= a:
        if a%loop == 0:
            a/=loop
            bilanganList.append(loop)
        else:
            loop+=1
    return bilanganList
```

Python 2.7.15 Shell

File Edit Shell Debug Options

```
Python 2.7.15 (v2.7.15:ca
tel)] on win32
Type "copyright", "credit
>>>
 RESTART: D:\PERKULIAHAN\
nomer7.py
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 2, 3, 5]
>>> faktorPrima(19)
[19]
>>>
```

NOMER 8

nomer8.py - D:\PERKULIAHAN\SEMEST

File Edit Format Run Options Wir

```
def apakahTerkandung(x,y):
    a=True
    for i in range(len(y)):
        if x in y:
            a=True
        else:
            a=False
    return a
```

Python 2.7.15 Shell

File Edit Shell Debug Options Window Help

```
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30
tel)] on win32
Type "copyright", "credits" or "license()
>>>
 RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKT
nomer8.py
>>> h = 'do'
>>> k = 'Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>>
```

NOMER 9

nomer9.py - D:\PERKULIAHAN\SEMESTER 4\P

File Edit Format Run Options Window

```
def mencetak(a):
    for i in range(a):
        if(i<=0):
            pass
        elif(i%3==0 and i%5==0):
            print ("Python UMS")
        elif(i%3==0):
            print ("Python")
        elif(i%5==0):
            print ("UMS")
        else :
            print (i)
```

Python 2.7.15 Shell

File Edit Shell Debug

```
Python 2.7.15 (v2.7.
tel)] on win32
Type "copyright", "c
>>>
 RESTART: D:\PERKULI
nomer9.py
>>> mencetak(101)
1
2
Python
4
UMS
Python
7
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
```

NOMER 10

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:
        x1=(-b + detr(D)) / (2*a)
        x2=(-b + detr(D)) / (2*a)
        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.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\
nomer10.py
>>> selesaikanABC(1,2,3)
'Determinan negatif, persamaan tidak mempunyai akar real'
>>>
```

NOMER 11

nomer11.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200

File Edit Format Run Options Window Help

```
def tahunKabisat(tahun):
    hasil=False
    if(tahun%4==0 and tahun%100!=0 and tahun%400!=0):
        hasil=True
    elif(tahun%100==0 and tahun%400!=0):
        hasil=False
    elif(tahun%400==0):
        hasil=True
    else:
        hasil=False
    return hasil
```

Python 2.7.15 Shell

File Edit Shell Debug Options Window Help

```
Python 2.7.15 (v2.7.15:ca079a3ea3, Ap
tel)] on win32
Type "copyright", "credits" or "licen
>>>
 RESTART: D:\PERKULIAHAN\SEMESTER 4\P
nomer11.py
>>> tahunKabisat(1896)
True
>>> tahunKabisat(1897)
False
>>> tahunKabisat(1900)
False
>>> tahunKabisat(2000)
True
>>> tahunKabisat(2004)
True
>>> tahunKabisat(2100)
False
>>> tahunKabisat(2400)
True
>>>
```

NOMER 12

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) + ":> "))
        if b < a:
            print ("Itu Terlalu Kecil")
        elif b > a :
            print ("Itu Terlalu Besar")
        else :
            print("Ya. Anda Benar.")
            break
```

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.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.
>>>
```

NOMER 13

nomer13.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211_Modul1_...

File Edit Format Run Options Window Help

```
def katakan(bilangan):
    angka=["","Satu","Dua","Tiga","Empat","Lima","Enam","Tujuh",
           "Delapan","Sembilan","Sepuluh","Sebelas"]
    Hasil = " "
    n = int(bilangan)
    if n>=0 and n<=11:
        Hasil = Hasil +angka[n]
    elif n<20:
        Hasil = katakan(n % 10) + " Belas"
    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<20000:
        Hasil = " Sepuluh Ribu" + katakan(n-10000)
    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<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
```

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.1500
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
 RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211_Mod
nomer13.py
>>> katakan(3125750)
' Tiga Juta Seratus Ribu Dua Puluh Lima Ribu Tujuh Ratus Lima Puluh '
>>>
```

On-Screen Keyboard

NOMER 14

nomer14.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L2

File Edit Format Run Options Window Help

```
def formatRupiah(bilangan):
    a = str (bilangan)
    if len(a) <= 3 :
        return "Rp " + a
    else :
        y = a[-3:]
        z = a[:-3]
        return formatRupiah(z) + "." + y
        print  ("Rp ") + formatRupiah(z) + "." +y
```

Python 2.7.15 Shell

File Edit Shell Debug Options Window

```
Python 2.7.15 (v2.7.15:ca079a3ea3
tel)] on win32
Type "copyright", "credits" or "l
>>>
 RESTART: D:\PERKULIAHAN\SEMESTER
nomer14.py
>>> formatRupiah(1500)
'Rp 1.500'
>>> formatRupiah(2560000)
'Rp 2.560.000'
>>>
```