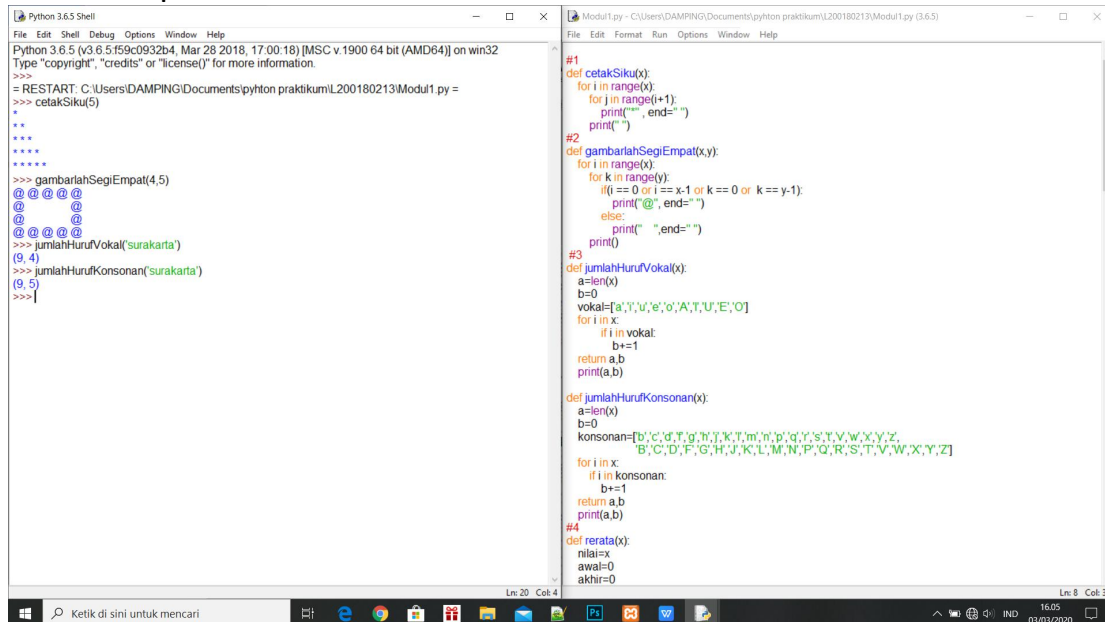


NAMA : DAMPING RIZKI W.A
NIM: L200180213
KELAS H / ALGOSTRUK
TUGAS MODUL 1

No. 1 sampai 3



```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\DAMPING\Documents\pyhton praktikum\L200180213\Modul1.py =
>>> cetakSiku(5)
*
* *
* * *
* * * *
* * * * *

>>> gambarlahSegiEmpat(4,5)
@ @ @ @ @
@
@ @
@ @ @ @
@ @ @ @ @

>>> jumlahHurufVokal("surakarta")
(9, 4)
>>> jumlahHurufKonsonan("surakarta")
(9, 5)
>>>

Modul1.py - C:\Users\DAMPING\Documents\pyhton praktikum\L200180213\Modul1.py (3.6.5)
File Edit Format Run Options Window Help

#1
def cetakSiku(x):
    for i in range(x):
        for j in range(i+1):
            print(" ", end=" ")
        print("\n")

#2
def gambarlahSegiEmpat(x,y):
    for i in range(x):
        for k in range(y):
            if(i == 0 or i == x-1 or k == 0 or k == y-1):
                print("@", end=" ")
            else:
                print(" ", end=" ")
            print()

#3
def jumlahHurufVokal(x):
    a=len(x)
    b=0
    vokal=['a','i','u','e','o','A','T','U','E','O']
    for i in x:
        if i in vokal:
            b+=1
    return a,b
print(a,b)

def jumlahHurufKonsonan(x):
    a=len(x)
    b=0
    konsonan=['b','c','d','f','g','h','j','k','l','m','n','p','q','r','s','t','v','w','x','y','z',
'B','C','D','F','G','H','J','K','L','M','N','P','Q','R','S','T','V','W','X','Y','Z']
    for i in x:
        if i in konsonan:
            b+=1
    return a,b
print(a,b)

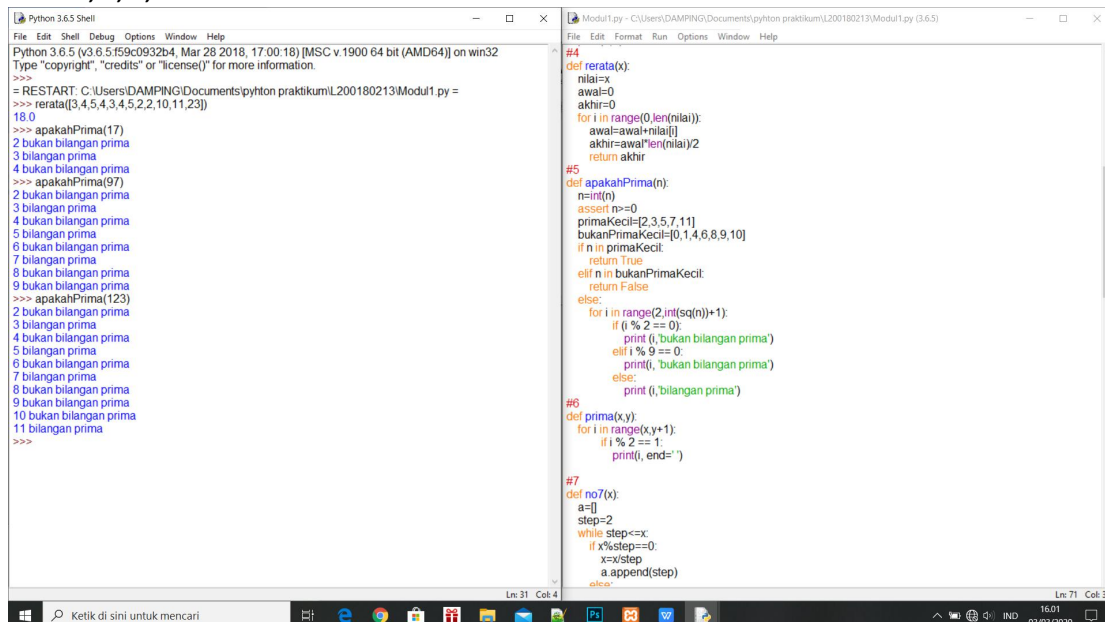
#4
def rerata(x):
    nilai=x
    awal=0
    akhir=0
    for i in range(0,len(nilai)):
        awal=awal+nilai[i]
        akhir=akhir+len(nilai)/2
    return akhir

#5
def apakahPrima(n):
    n=int(n)
    assert n>=0
    primaKecil=[2,3,5,7,11]
    bukanPrimaKecil=[0,1,4,6,8,9,10]
    if n in primaKecil:
        return True
    elif n in bukanPrimaKecil:
        return False
    else:
        for i in range(2,int(sq(n))+1):
            if (i % 2 == 0):
                print(i,"bukan bilangan prima")
            elif i % 9 == 0:
                print(i,"bukan bilangan prima")
            else:
                print(i,"bilangan prima")

#6
def prima(x,y):
    for i in range(x,y+1):
        if i % 2 == 1:
            print(i, end=" ")

#7
def no7(x):
    a=[]
    step=2
    while step<=x:
        if x%step==0:
            x=x/step
            a.append(step)
        step+=1
    return a
```

No. 4,5,7,8



```
Python 3.6.5 Shell
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Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\DAMPING\Documents\pyhton praktikum\L200180213\Modul1.py =
>>> rerata([3,4,5,4,3,4,5,2,2,10,11,23])
18.0
>>> apakahPrima(17)
2 bukan bilangan prima
3 bilangan prima
4 bukan bilangan prima
>>> apakahPrima(97)
2 bukan bilangan prima
3 bilangan prima
4 bukan bilangan prima
5 bilangan prima
6 bukan bilangan prima
7 bilangan prima
8 bukan bilangan prima
9 bukan bilangan prima
>>> apakahPrima(123)
2 bukan bilangan prima
3 bilangan prima
4 bukan bilangan prima
5 bilangan prima
6 bukan bilangan prima
7 bilangan prima
8 bukan bilangan prima
9 bukan bilangan prima
10 bukan bilangan prima
11 bilangan prima
>>>

Modul1.py - C:\Users\DAMPING\Documents\pyhton praktikum\L200180213\Modul1.py (3.6.5)
File Edit Format Run Options Window Help

#4
def rerata(x):
    nilai=x
    awal=0
    akhir=0
    for i in range(0,len(nilai)):
        awal=awal+nilai[i]
        akhir=akhir+len(nilai)/2
    return akhir

#5
def apakahPrima(n):
    n=int(n)
    assert n>=0
    primaKecil=[2,3,5,7,11]
    bukanPrimaKecil=[0,1,4,6,8,9,10]
    if n in primaKecil:
        return True
    elif n in bukanPrimaKecil:
        return False
    else:
        for i in range(2,int(sq(n))+1):
            if (i % 2 == 0):
                print(i,"bukan bilangan prima")
            elif i % 9 == 0:
                print(i,"bukan bilangan prima")
            else:
                print(i,"bilangan prima")

#6
def prima(x,y):
    for i in range(x,y+1):
        if i % 2 == 1:
            print(i, end=" ")

#7
def no7(x):
    a=[]
    step=2
    while step<=x:
        if x%step==0:
            x=x/step
            a.append(step)
        step+=1
    return a
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\DAMPING\Documents\pyhton praktikum\L200180213\Modul1.py =
>>> rerata([3,4,5,4,3,4,5,2,2,10,11,23])
18.0
>>> apakahPrima(17)
2 bukan bilangan prima
3 bilangan prima
4 bukan bilangan prima
>>> apakahPrima(97)
2 bukan bilangan prima
3 bilangan prima
4 bukan bilangan prima
5 bilangan prima
6 bukan bilangan prima
7 bilangan prima
8 bukan bilangan prima
9 bukan bilangan prima
>>> apakahPrima(123)
2 bukan bilangan prima
3 bilangan prima
4 bukan bilangan prima
5 bilangan prima
6 bukan bilangan prima
7 bilangan prima
8 bukan bilangan prima
9 bukan bilangan prima
10 bukan bilangan prima
11 bilangan prima
>>> no7(10)
[2, 5]
>>> no7(120)
[2, 2, 2, 3, 5]
>>> no7(19)
[19]
>>> apakahTerkandung('ra','surakarta')
True
>>>

Modul1.py - C:\Users\DAMPING\Documents\pyhton praktikum\L200180213\Modul1.py (3.6.5)
File Edit Format Run Options Window Help
#7 def no7(x):
a=[]
step=2
while step<=x:
if x%step==0:
x=x/step
a.append(step)
else:
step+=1
return a

#8 def apakahTerkandung(a,b):
if a in b:
return True
else:
return False

#9 def soal9(a,b):
for i in range(a,b):
if 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)

#10 def selesaikanABC(a,b,c):
try:
a = float(a)
b = float(b)
c = float(c)
D= b**2 - 4*a*c
x1 = (-b + (D)**(2*a))
x2 = (-b - (D)**(2*a))
hasil = (x1,x2)
print(D)
return hasil
except:
print("Determinannya negatif. Persamaan tidak memiliki akar real")

#11 def apakahKabisat(x):
if x % 4 == 0:
print(str(x) + " Adalah Tahun kabisat")
elif x % 100 == 0 and x % 400 == 0:
print(str(x) + " Adalah Tahun kabisat")
else:
print(str(x) + " Bukan tahun kabisat")

#12 def not120():
x=random.randint(1,100)
print("Saya menyimpan angka. sebenarnya angkanya adalah :",x)
for i in range(1,10):
y=int(input("masukkan tebakan: "))
if y > x:
print("tebakanmu terlalu besar. Coba lagi!")
if y < x:
print("tebakanmu terlalu kecil. Coba lagi!")
if y == x:
print("Benar!")
return y
```

No. 9 dan 10

```
Python 3.6.5 Shell
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Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\DAMPING\Documents\pyhton praktikum\L200180213\Modul1.py =
>>> soal9(1,100)
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
34
UMS
37
38

Modul1.py - C:\Users\DAMPING\Documents\pyhton praktikum\L200180213\Modul1.py (3.6.5)
File Edit Format Run Options Window Help
#9 return False
def soal9(a,b):
for i in range(a,b):
if 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)

#10 def selesaikanABC(a,b,c):
try:
a = float(a)
b = float(b)
c = float(c)
D= b**2 - 4*a*c
x1 = (-b + (D)**(2*a))
x2 = (-b - (D)**(2*a))
hasil = (x1,x2)
print(D)
return hasil
except:
print("Determinannya negatif. Persamaan tidak memiliki akar real")

#11 def apakahKabisat(x):
if x % 4 == 0:
print(str(x) + " Adalah Tahun kabisat")
elif x % 100 == 0 and x % 400 == 0:
print(str(x) + " Adalah Tahun kabisat")
else:
print(str(x) + " Bukan tahun kabisat")

#12 def not120():
x=random.randint(1,100)
print("Saya menyimpan angka. sebenarnya angkanya adalah :",x)
for i in range(1,10):
y=int(input("masukkan tebakan: "))
if y > x:
print("tebakanmu terlalu besar. Coba lagi!")
if y < x:
print("tebakanmu terlalu kecil. Coba lagi!")
if y == x:
print("Benar!")
return y
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
61
62 Python
64 UMS
65 Python
67 UMS
68 Python
69 UMS
71 Python
73 Python UMS
74
76
77 Python
79 UMS
82 Python
83 UMS
85 Python
86 UMS
88 Python
89 Python UMS
91
92 Python
94 UMS
96 Python
97
98 Python
>>> selesaikanABC(1,2,3)
Determinannya negatif. Persamaan tidak memiliki akar real
>>>

Modul1.py - C:\Users\DAMPING\Documents\pyhton praktikum\200180213\Modul1.py (3.6.5)
File Edit Format Run Options Window Help
#9
return False
def soal9(a,b):
for i in range(a,b):
if 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)
#10
def selesaikanABC(a,b,c):
try:
a = float(a)
b = float(b)
c = float(c)
D= b**2 - 4*a*c
x1 = (-b + ly(D))/(2*a)
x2 = (-b - ly(D))/(2*a)
hasil = (x1,x2)
print(D)
return hasil
except:
print("Determinannya negatif. Persamaan tidak memiliki akar real")
#11
def apakahKabisat(x):
if x % 4 == 0:
print(str(x) + " Adalah Tahun kabisat")
elif x % 100 == 0 and x % 400 == 0:
print(str(x) + " Adalah Tahun kabisat")
else:
print(str(x) + " Bukan tahun kabisat")
#12
def no12():
x=random.randint(1,100)
print("Saya menyimpan angka. sebenarnya angkanya adalah: ",x)
for i in range(1,10):
y=int(input("masukkan tebakan: "))
if y > x:
print("itu terlalu besar. Coba lagi")
elif y < x:
print("itu terlalu kecil. Coba lagi")
else:
print("Ya,Anda benar")
break
#13
def no13Function(x):
angka=[0,1,1,'satu',2,'dua',3,'tiga',4,'empat',5,'lima',6,'enam',7,'tujuh',8,'delapan',9,'sembilan']
if (x<10):
return (str(angka[x]))
elif (x < 20):
y=x%10
return (str(angka[y] + ' belas'))
elif x<99:
return (str(angka[x//10] + ' puluh ' + no13Function(x%10)))
elif x<999:
return (str(angka[x//100] + ' ratus ' + no13Function(x%100)))
elif x<9999:
return (str(angka[x//1000] + ' ribu ' + no13Function(x%1000)))
elif x<99999:
return (str(angka[x//10000] + ' puluh ' + no13Function(x%10000)))
elif x<999999:
return (str(angka[x//100000] + ' ratus ' + no13Function(x%100000)))
elif x<9999999:
return (str(angka[x//1000000] + ' juta ' + no13Function(x%1000000)))
elif x<99999999:
return (str(angka[x//10000000] + ' puluh ' + no13Function(x%10000000)))
elif x<999999999:
return (str(angka[x//100000000] + ' ratus ' + no13Function(x%100000000)))
else:
print("Input melebihi limit")
def no13(x):
x=no13Function(x).replace('satu belas','sebelas').replace('satu puluh','sepuluh').replace('satu ratus','sera')
return x
```

No 12 dan 13

```
Python 3.6.5 Shell
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Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\DAMPING\Documents\pyhton praktikum\200180213\Modul1.py =
>>> no12()
Saya menyimpan angka. sebenarnya angkanya adalah: 13
masukkan tebakan: 6
itu terlalu kecil. Coba lagi
masukkan tebakan: 12
itu terlalu kecil. Coba lagi
masukkan tebakan: 25
itu terlalu besar. Coba lagi
masukkan tebakan: 15
itu terlalu besar. Coba lagi
masukkan tebakan: 13
Ya,Anda benar
>>> no13(828282821)
'delapan ratus dua puluh delapan juta dua ratus delapan puluh dua ribu delapan ratus dua puluh satu'
>>>

Modul1.py - C:\Users\DAMPING\Documents\pyhton praktikum\200180213\Modul1.py (3.6.5)
File Edit Format Run Options Window Help
def no12():
x=random.randint(1,100)
print("Saya menyimpan angka. sebenarnya angkanya adalah: ",x)
for i in range(1,10):
y=int(input("masukkan tebakan: "))
if y > x:
print("itu terlalu besar. Coba lagi")
elif y < x:
print("itu terlalu kecil. Coba lagi")
else:
print("Ya,Anda benar")
break
#13
def no13Function(x):
angka=[0,1,1,'satu',2,'dua',3,'tiga',4,'empat',5,'lima',6,'enam',7,'tujuh',8,'delapan',9,'sembilan']
if (x<10):
return (str(angka[x]))
elif (x < 20):
y=x%10
return (str(angka[y] + ' belas'))
elif x<99:
return (str(angka[x//10] + ' puluh ' + no13Function(x%10)))
elif x<999:
return (str(angka[x//100] + ' ratus ' + no13Function(x%100)))
elif x<9999:
return (str(angka[x//1000] + ' ribu ' + no13Function(x%1000)))
elif x<99999:
return (str(angka[x//10000] + ' puluh ' + no13Function(x%10000)))
elif x<999999:
return (str(angka[x//100000] + ' ratus ' + no13Function(x%100000)))
elif x<9999999:
return (str(angka[x//1000000] + ' juta ' + no13Function(x%1000000)))
elif x<99999999:
return (str(angka[x//10000000] + ' puluh ' + no13Function(x%10000000)))
elif x<999999999:
return (str(angka[x//100000000] + ' ratus ' + no13Function(x%100000000)))
else:
print("Input melebihi limit")
def no13(x):
x=no13Function(x).replace('satu belas','sebelas').replace('satu puluh','sepuluh').replace('satu ratus','sera')
return x
```

No 14

```
Python 3.6.5 Shell
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Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\IDAMPING\Documents\pyhton praktikum\L200180213\Modul1.py =
>>> no12()
Saya menyimpan angka. sebenarnya angkanya adalah: 13
masukkan tebakkan: 6
itu terlalu kecil. Coba lagi
masukkan tebakkan: 12
itu terlalu kecil. Coba lagi
masukkan tebakkan: 25
itu terlalu besar. Coba lagi
masukkan tebakkan: 15
itu terlalu besar. Coba lagi
masukkan tebakkan: 13
Ya, Anda benar
>>> no13(828282821)
'delapan ratus dua puluh delapan juta dua ratus delapan puluh dua ribu delapan ratus dua puluh satu'
>>> no14(18000000)
Rp 18.000.000'
>>>

Modul1.py - C:\Users\IDAMPING\Documents\pyhton praktikum\L200180213\Modul1.py (3.6.5)
File Edit Format Run Options Window Help
#13
def no13Function(x):
    angka=[0,1,2,3,4,5,6,7,8,9]
    if (x<10):
        return (str(angka[x]))
    elif (x < 20):
        y=x%10
        return (str(angka[y] + ' belas'))
    elif x<99:
        return (str(angka[x//10] + ' puluh ' + no13Function(x%10)))
    elif x<999:
        return (str(angka[x//100] + ' ratus ' + no13Function(x%100)))
    elif x<9999:
        return (str(angka[x//1000] + ' ribu ' + no13Function(x%1000)))
    elif x<99999:
        return (str(angka[x//10000] + ' puluh ' + no13Function(x%10000)))
    elif x<999999:
        return (str(angka[x//100000] + ' ratus ' + no13Function(x%100000)))
    elif x<9999999:
        return (str(angka[x//1000000] + ' juta ' + no13Function(x%1000000)))
    elif x<99999999:
        return (str(angka[x//10000000] + ' puluh ' + no13Function(x%10000000)))
    elif x<999999999:
        return (str(angka[x//100000000] + ' ratus ' + no13Function(x%100000000)))
    else:
        print('Input melebihi limit')
def no13(x):
    x=no13Function(x).replace('satu belas','sebelas').replace('satu puluh','sepuluh').replace('satu ratus','sera')
    return x

#14
def no14(x):
    uang=str(x)
    if len(uang) <= 3:
        return 'Rp ' + uang
    else:
        p = uang[-3:]
        q = uang[:-3]
        return no14(q) + ',' + p
    print('Rp ' + no14(q) + '.' + p)
```