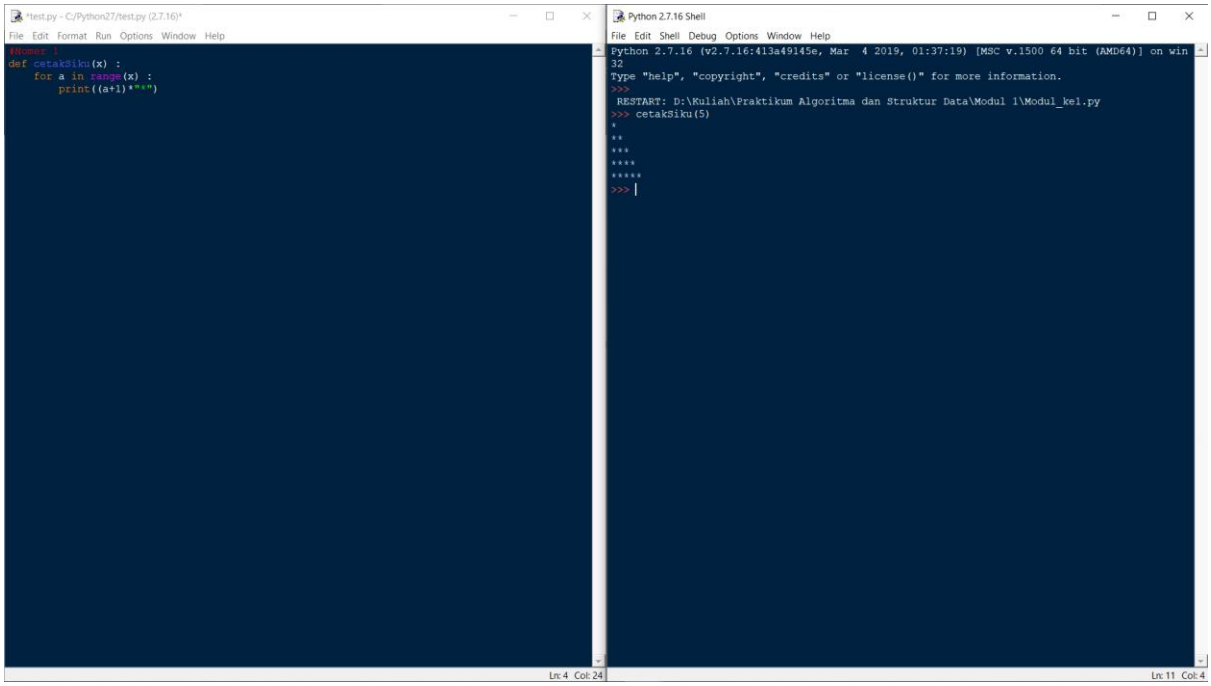
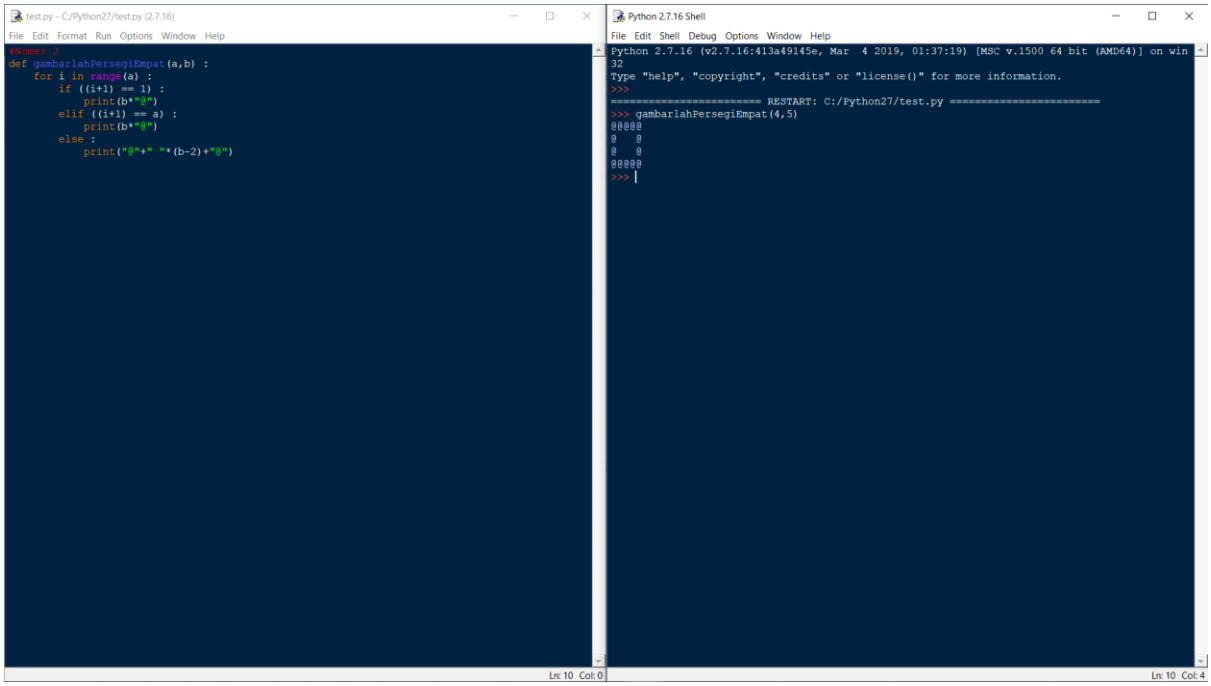
LAPORAN PRAKTIKUM
ALGORITMA DAN STRUKTUR DATA
MODUL 1

REYLIAN PREALDREAM ANAREKA
L200180087
KELAS D

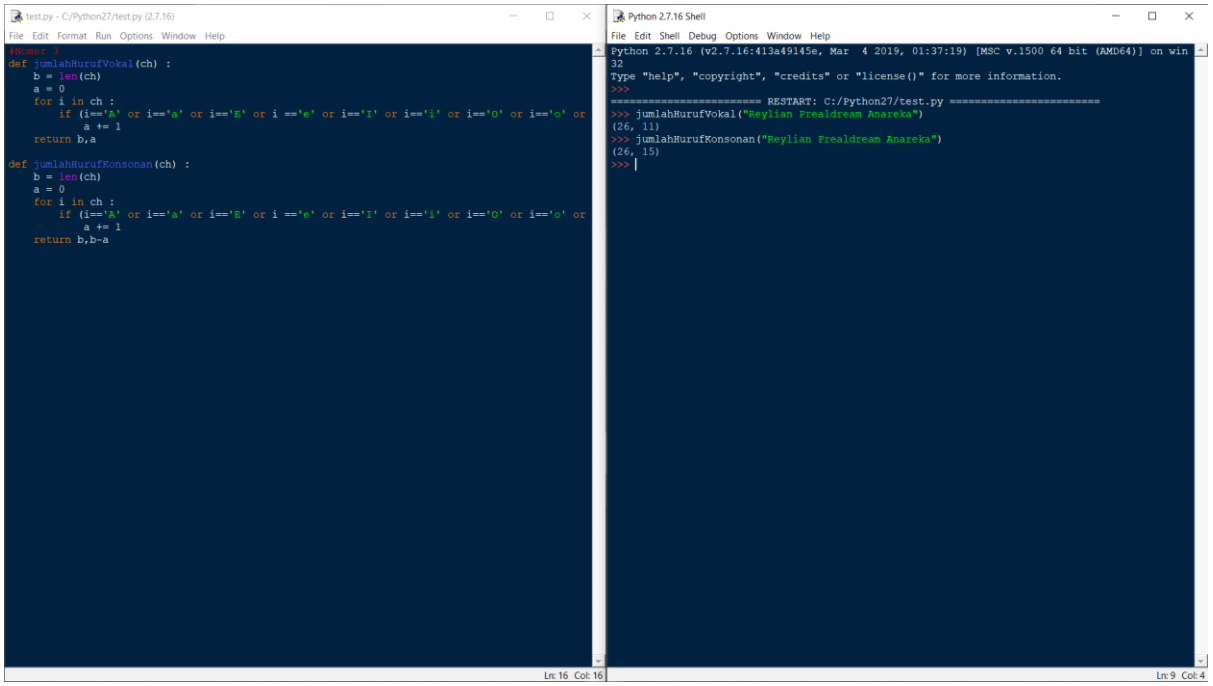
Nomer 1



Nomer 2



Nomer 3



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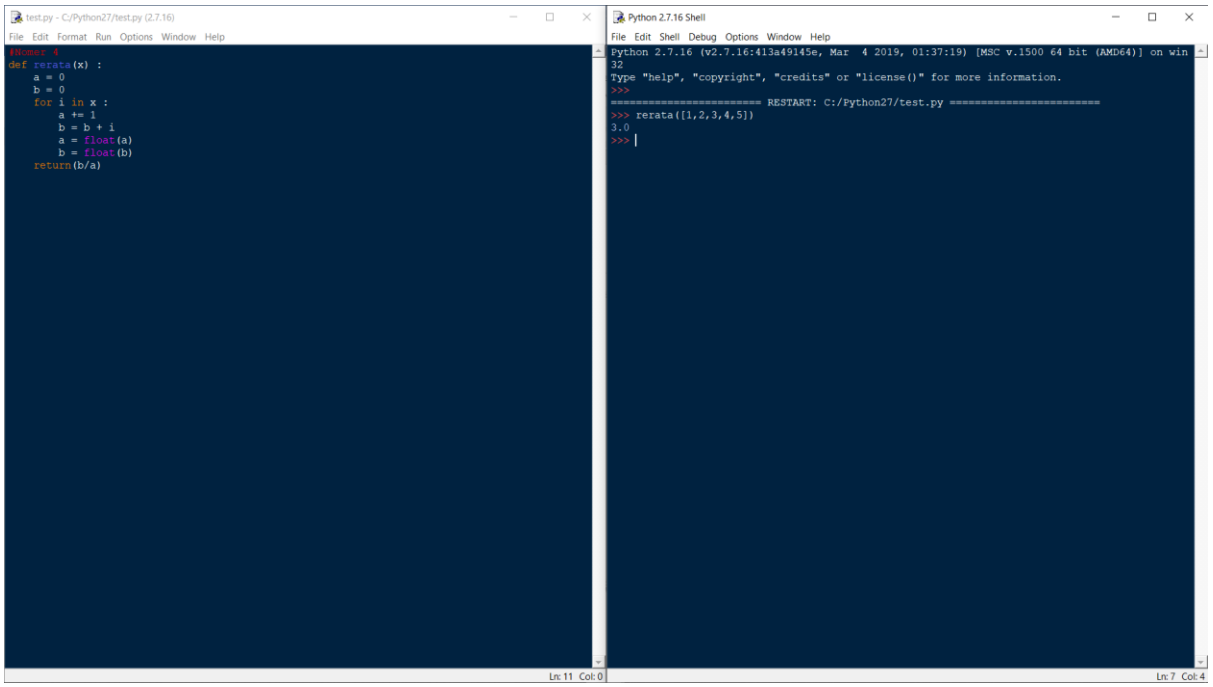

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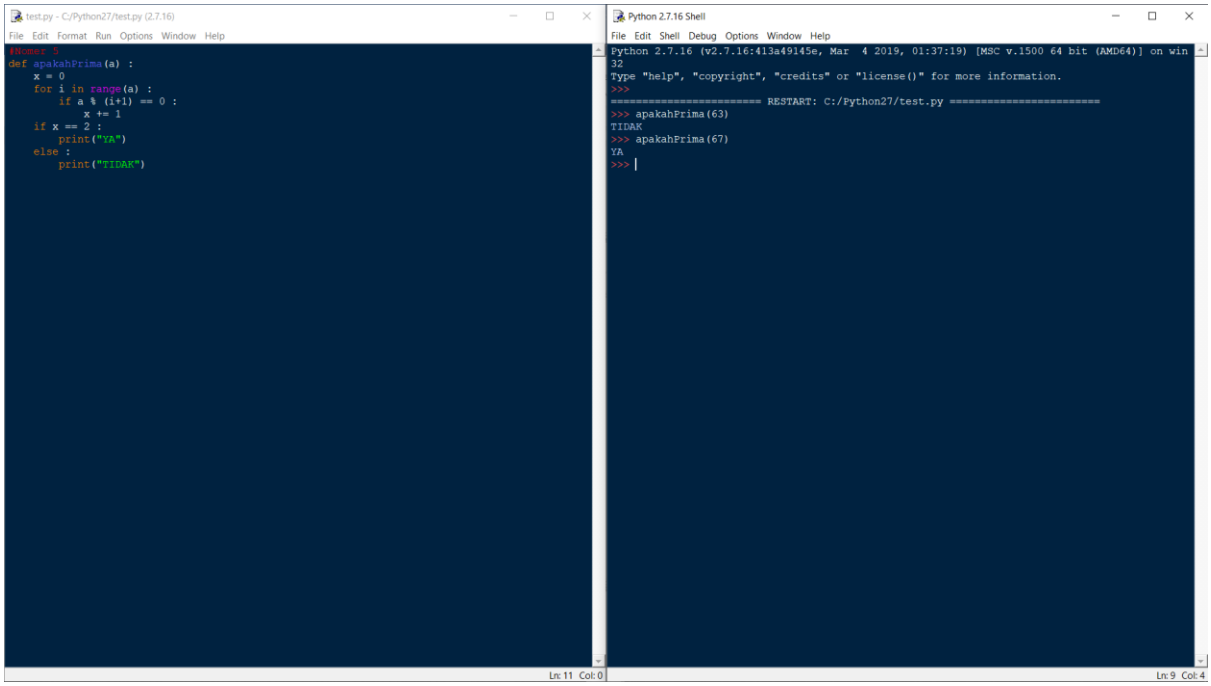

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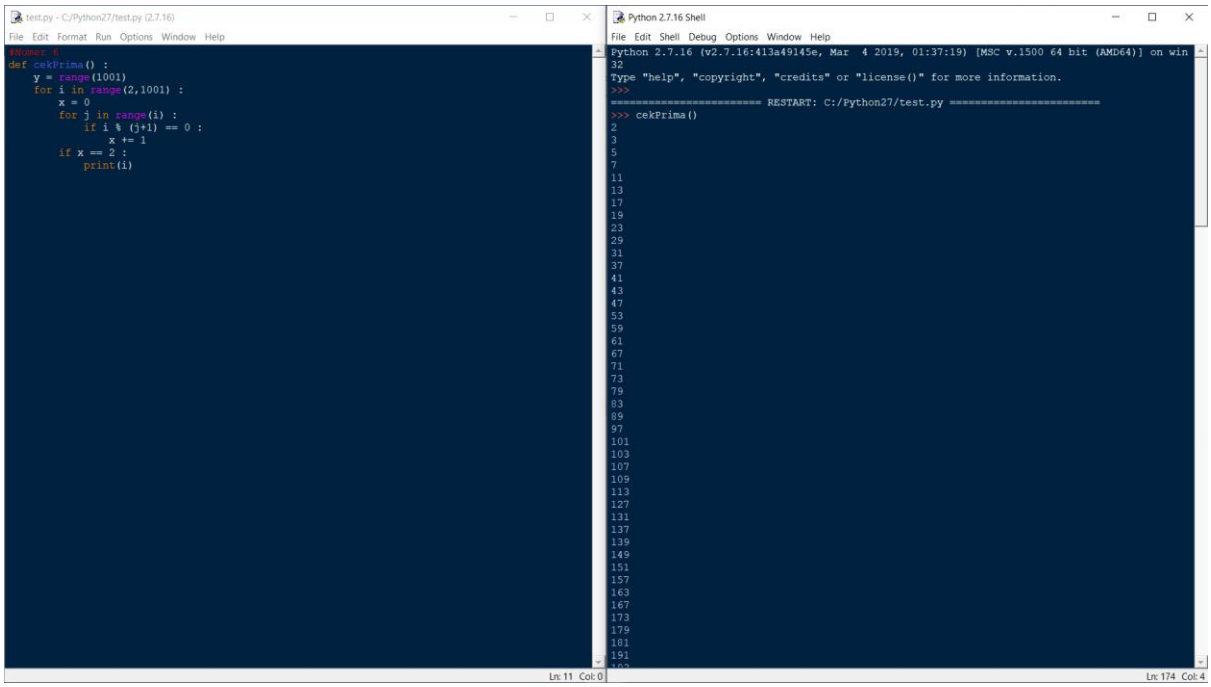
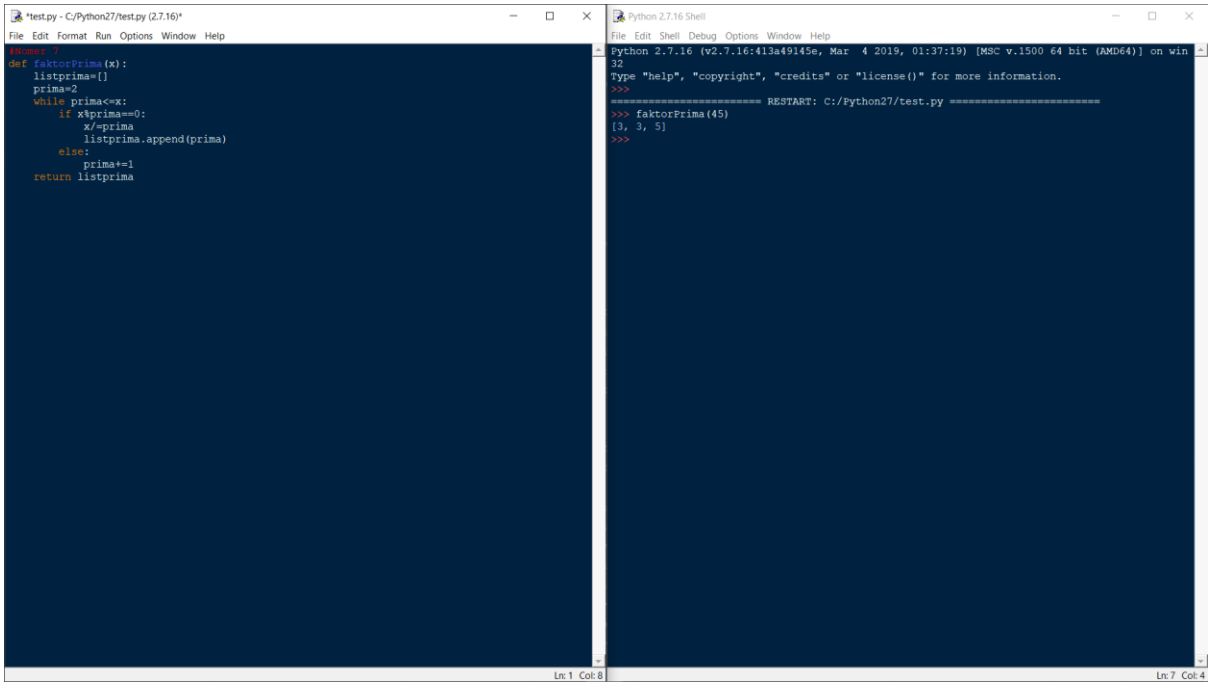
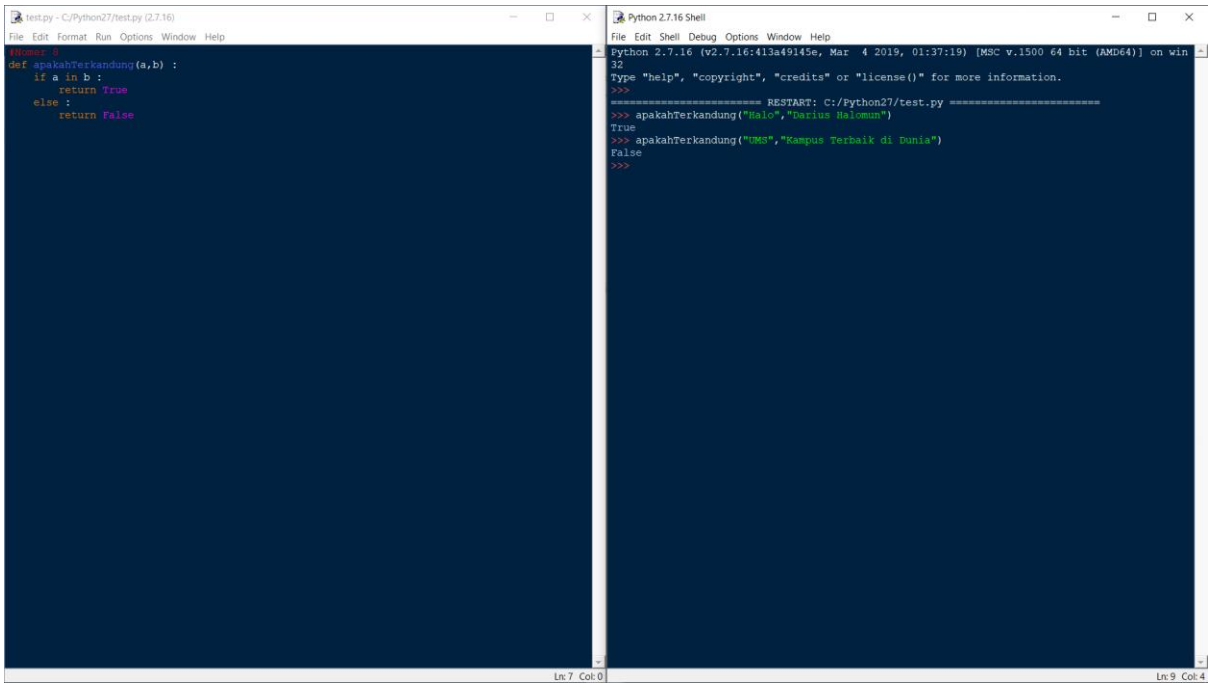


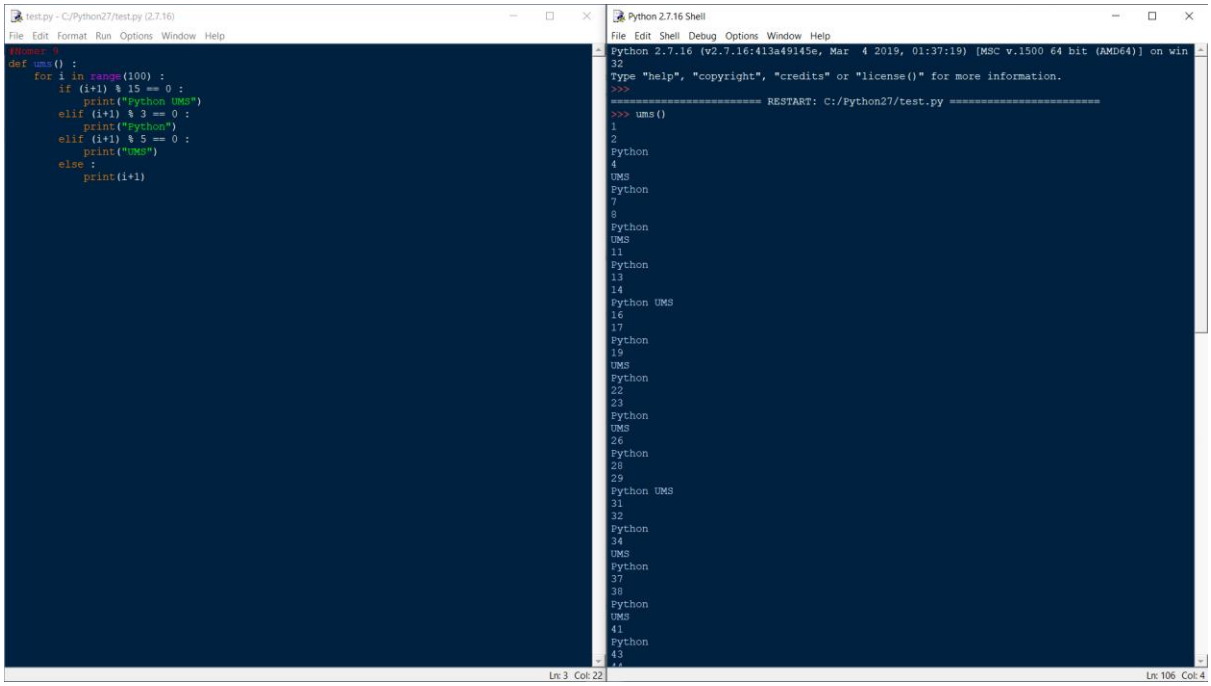
Nomer 7



Nomer 8



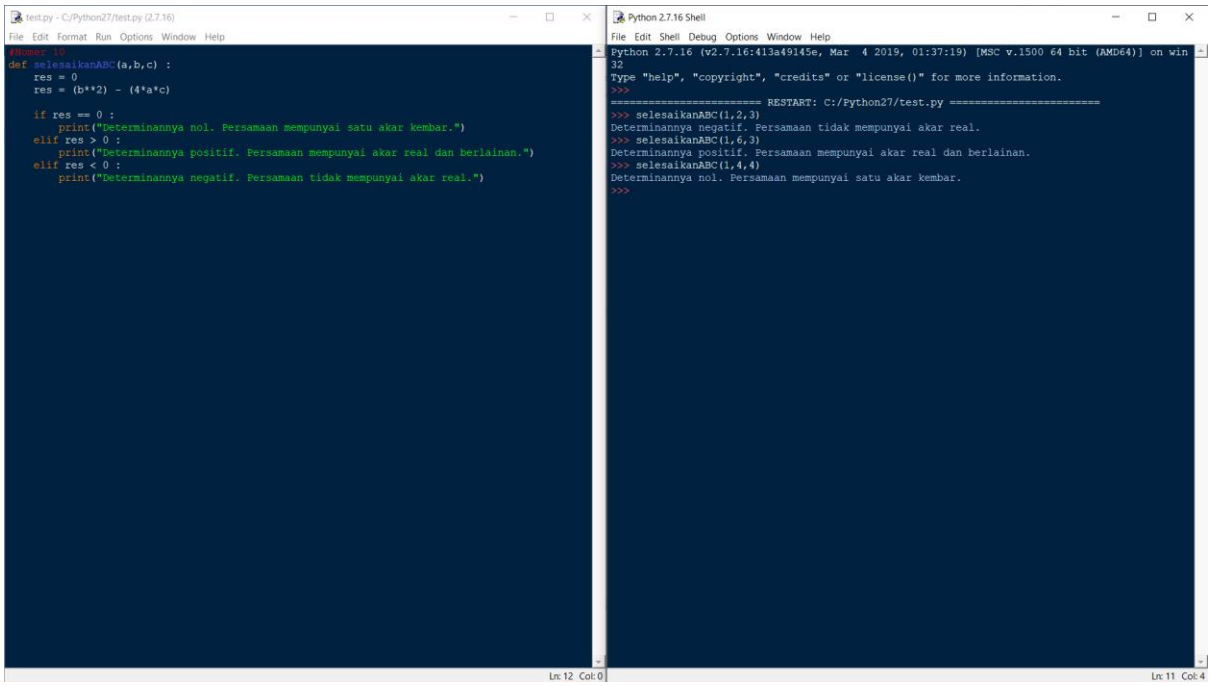
Nomer 9



```
#Nomer 9
def ums() :
    for i in range(100) :
        if (i+1) % 15 == 0 :
            print("Python UMS")
        elif (i+1) % 3 == 0 :
            print("Python")
        elif (i+1) % 5 == 0 :
            print("UMS")
        else :
            print(i+1)
```

```
Python 2.7.16 (v2.7.16:413a49145e, Mar  4 2019, 01:37:19) [MSC v.1500 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Python27/test.py ==========
>>> ums()
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
Python
37
38
Python
UMS
41
Python
43
```

Nomer 10

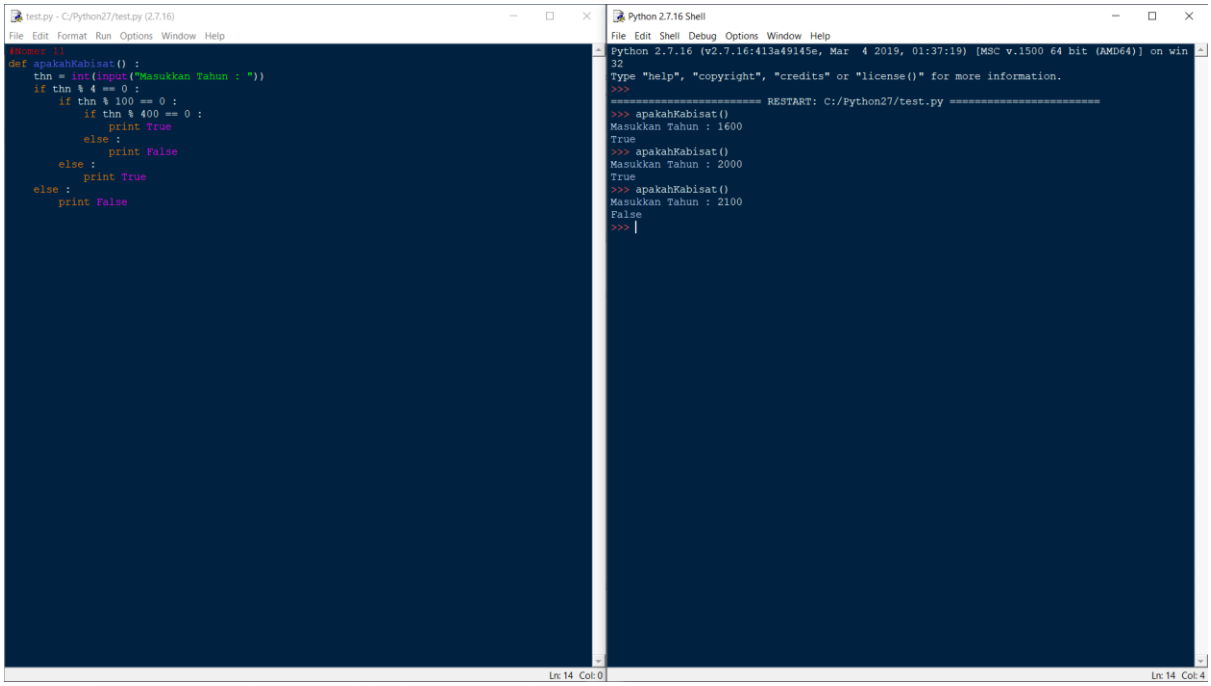


```
#Nomer 10
def selesaikanABC(a,b,c) :
    res = 0
    res = (b**2) - (4*a*c)

    if res == 0 :
        print("Determinannya nol. Persamaan mempunyai satu akar kembar.")
    elif res > 0 :
        print("Determinannya positif. Persamaan mempunyai akar real dan berlainan.")
    elif res < 0 :
        print("Determinannya negatif. Persamaan tidak mempunyai akar real.")
```

```
Python 2.7.16 (v2.7.16:413a49145e, Mar  4 2019, 01:37:19) [MSC v.1500 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Python27/test.py ==========
>>> selesaikanABC(1,2,3)
Determinannya negatif. Persamaan tidak mempunyai akar real.
>>> selesaikanABC(1,6,3)
Determinannya positif. Persamaan mempunyai akar real dan berlainan.
>>> selesaikanABC(1,4,4)
Determinannya nol. Persamaan mempunyai satu akar kembar.
>>>
```

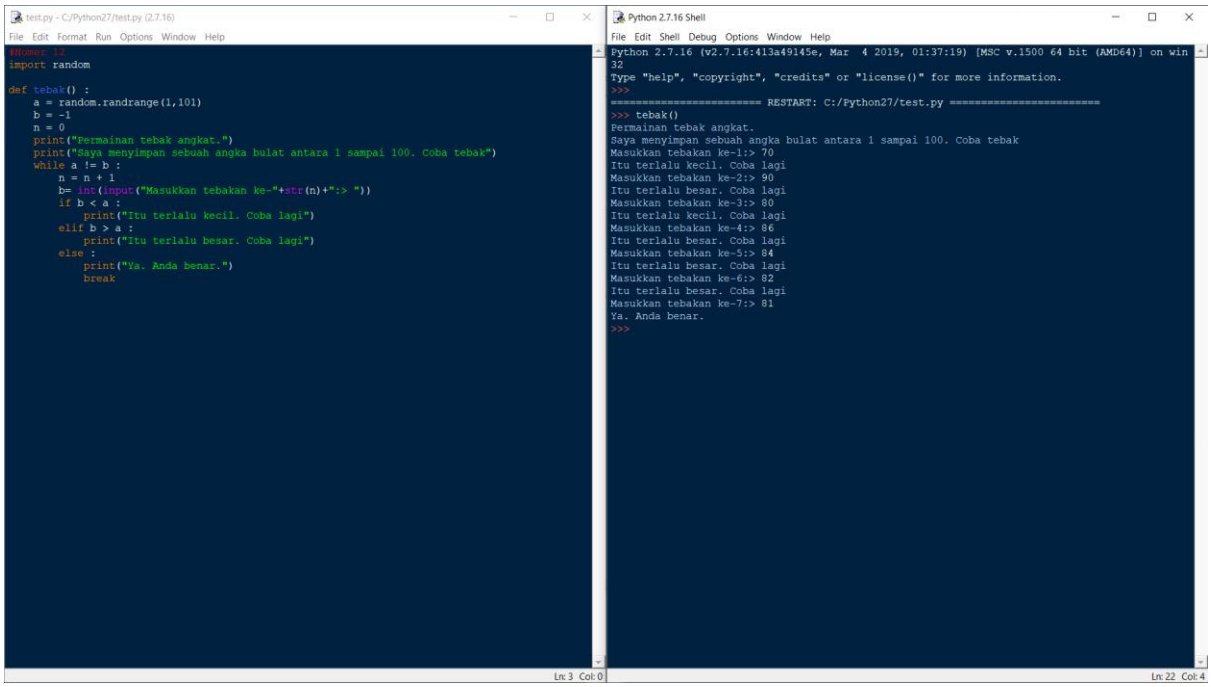
Nomer 11



```
#Nomer 11
def apakahKabisat() :
    thn = int(input("Masukkan Tahun : "))
    if thn % 4 == 0 :
        if thn % 100 == 0 :
            if thn % 400 == 0 :
                print True
            else :
                print False
        else :
            print True
    else :
        print False
```

```
Python 2.7.16 (v2.7.16:413a49145e, Mar  4 2019, 01:37:19) [MSC v.1500 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Python27/test.py ==========
>>> apakahKabisat()
Masukkan Tahun : 1600
True
>>> apakahKabisat()
Masukkan Tahun : 2000
True
>>> apakahKabisat()
Masukkan Tahun : 2100
False
>>>
```

Nomer 12

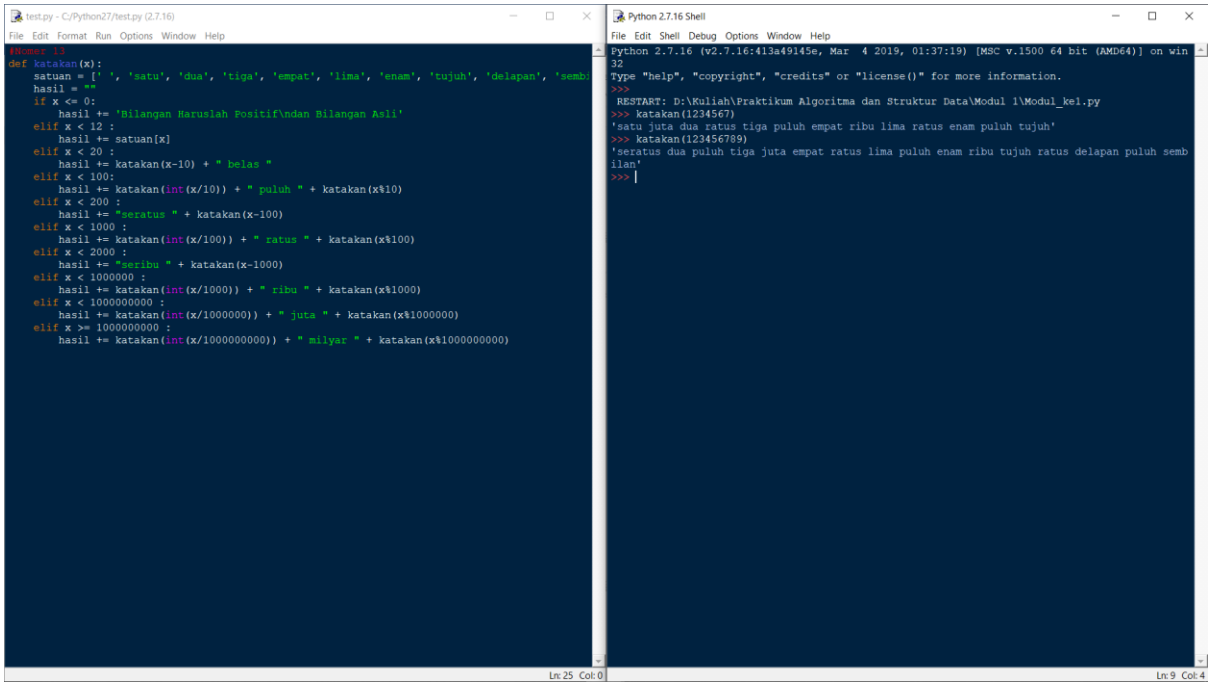


```
#Nomer 12
import random

def tebak() :
    a = random.randrange(1,101)
    b = -1
    n = 0
    print("Permainan tebak angkat.")
    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. Coba lagi")
        elif b > a :
            print("Itu terlalu besar. Coba lagi")
        else :
            print("Ya. Anda benar.")
            break
```

```
Python 2.7.16 (v2.7.16:413a49145e, Mar  4 2019, 01:37:19) [MSC v.1500 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Python27/test.py ==========
>>> tebak()
Permainan tebak angkat.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak
Masukkan tebakan ke-1:> 70
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-2:> 90
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-3:> 80
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-4:> 86
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-5:> 84
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-6:> 82
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-7:> 81
Ya. Anda benar.
>>>
```

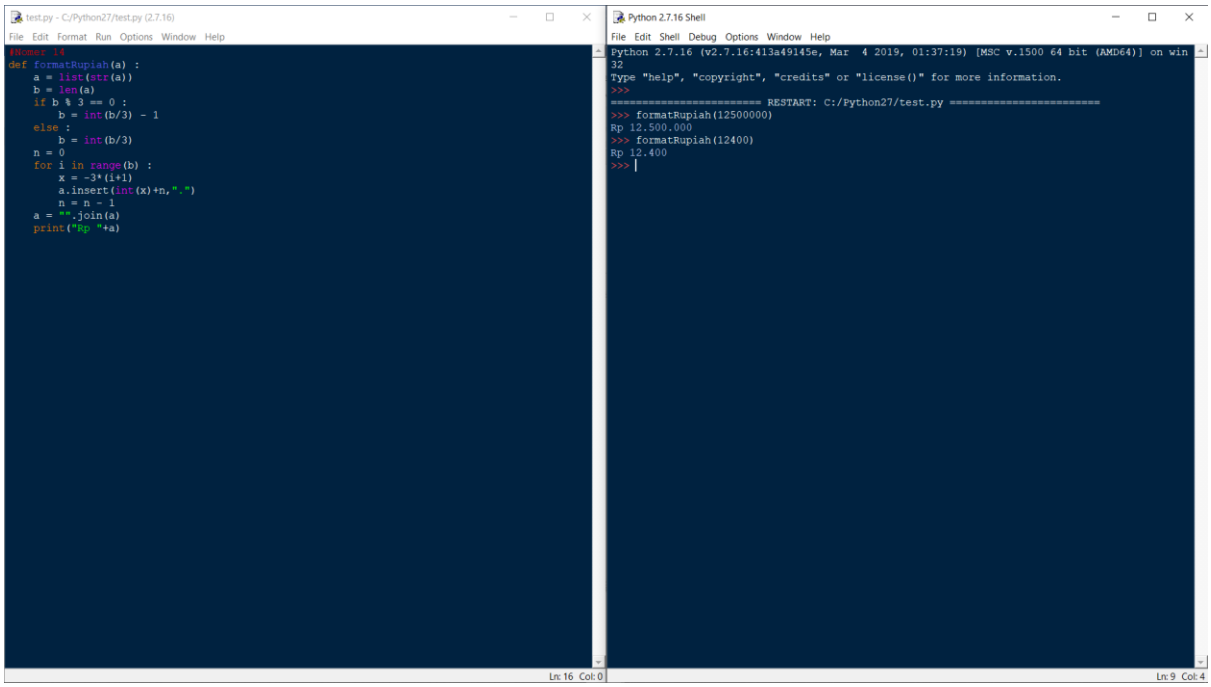
Nomer 13



```
#Nomer 13
def katakan(x):
    satuan = [' ', 'satu', 'dua', 'tiga', 'empat', 'lima', 'enam', 'tujuh', 'delapan', 'sembi
    hasil = ""
    if x <= 0:
        hasil += 'Bilangan Haruslah Positif\ndan Bilangan Asli'
    elif x < 12 :
        hasil += satuan[x]
    elif x < 20 :
        hasil += katakan(x-10) + " belas "
    elif x < 100:
        hasil += katakan(int(x/10)) + " puluh " + katakan(x%10)
    elif x < 200 :
        hasil += "seratus " + katakan(x-100)
    elif x < 1000 :
        hasil += katakan(int(x/100)) + " ratus " + katakan(x%100)
    elif x < 2000 :
        hasil += "seribu " + katakan(x-1000)
    elif x < 1000000 :
        hasil += katakan(int(x/1000)) + " ribu " + katakan(x%1000)
    elif x < 1000000000 :
        hasil += katakan(int(x/1000000)) + " juta " + katakan(x%1000000)
    elif x >= 1000000000 :
        hasil += katakan(int(x/1000000000)) + " milyar " + katakan(x%1000000000)
```

```
Python 2.7.16 (v2.7.16:413a49145e, Mar  4 2019, 01:37:19) [MSC v.1500 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
 RESTART: D:\Kuliah\Praktikum Algoritma dan Struktur Data\Modul 1\Modul_ke1.py
>>> katakan(1234567)
'satu juta dua ratus tiga puluh empat ribu lima ratus enam puluh tujuh'
>>> katakan(123456789)
'seratus dua puluh tiga juta empat ratus lima puluh enam ribu tujuh ratus delapan puluh semb
ilan'
>>>
```

Nomer 14



```
#Nomer 14
def formatRupiah(a) :
    a = list(str(a))
    b = len(a)
    if b % 3 == 0 :
        b = int(b/3) - 1
    else :
        b = int(b/3)
    n = 0
    for i in range(b) :
        x = -3*(i+1)
        a.insert(int(x)+n,".")
        n = n - 1
    a = "".join(a)
    print("Rp "+a)
```

```
Python 2.7.16 (v2.7.16:413a49145e, Mar  4 2019, 01:37:19) [MSC v.1500 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Python27/test.py ==========
>>> formatRupiah(12500000)
Rp 12.500.000
>>> formatRupiah(12400)
Rp 12.400
>>>
```