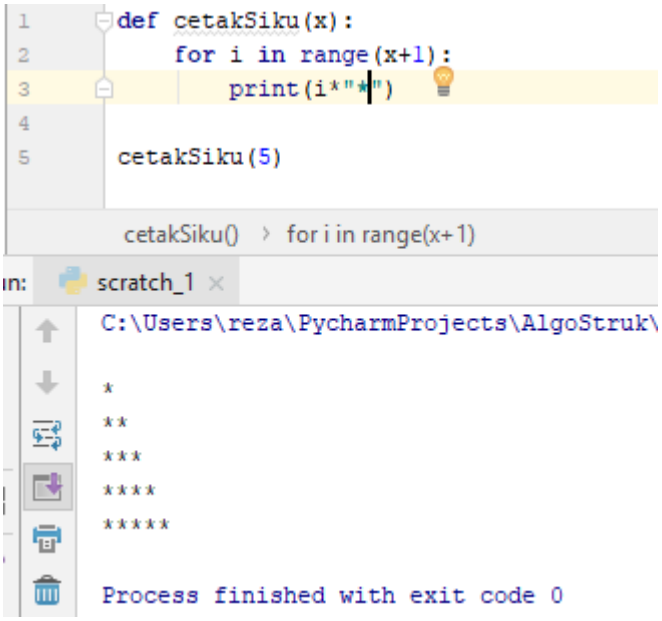
Nama : Reza Aristo Rifandi

NIM : L200180206

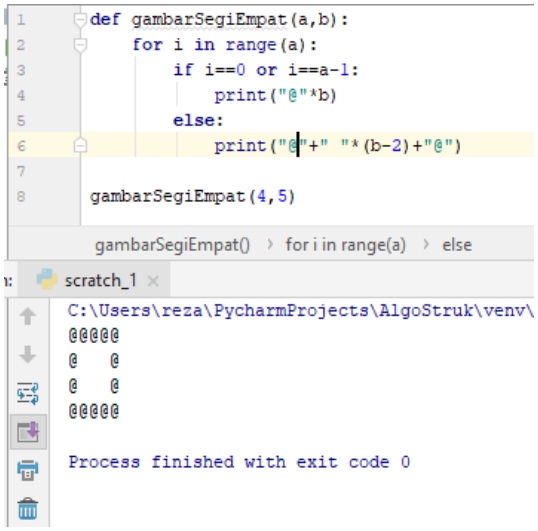
Kelas : H

MODUL 1

Nomor 1



Nomor 2



Nomor 3a

*jumlahHurufVokal.py - C:\Users\reza\PycharmProjects

File Edit Format Run Options Window Help

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

Python 3.6.5 Shell

File Edit Shell Debug Options Window Help

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar
l)] on win32
Type "copyright", "credits" or "licen
>>>
==== RESTART: C:\Users\reza\PycharmPr
>>> k=jumlahHurufVokal("Surakarta")
>>> k
(9, 4)
>>>
```

Nomor 3b

jumlahHurufKonsonan.py - C:\Users\reza\PycharmPr

File Edit Format Run Options Window Help

```
def jumlahHurufKonsonan(hrf):
    konsonan="BCDFGHJKLMNPQRSTVWXYZbcd
    b=0
    hasil=0
    for i in hrf:
        if i in konsonan:
            b+=len(i)
        else:
            b+=0
    hasil=len(hrf),b
    return hasil
```

Python 3.6.5 Shell

File Edit Shell Debug Options Window Help

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 20
l)] on win32
Type "copyright", "credits" or "license()"
>>>
== RESTART: C:\Users\reza\PycharmProjects\
>>> k = jumlahHurufKonsonan("Surakarta")
>>> k
(9, 5)
>>>
```

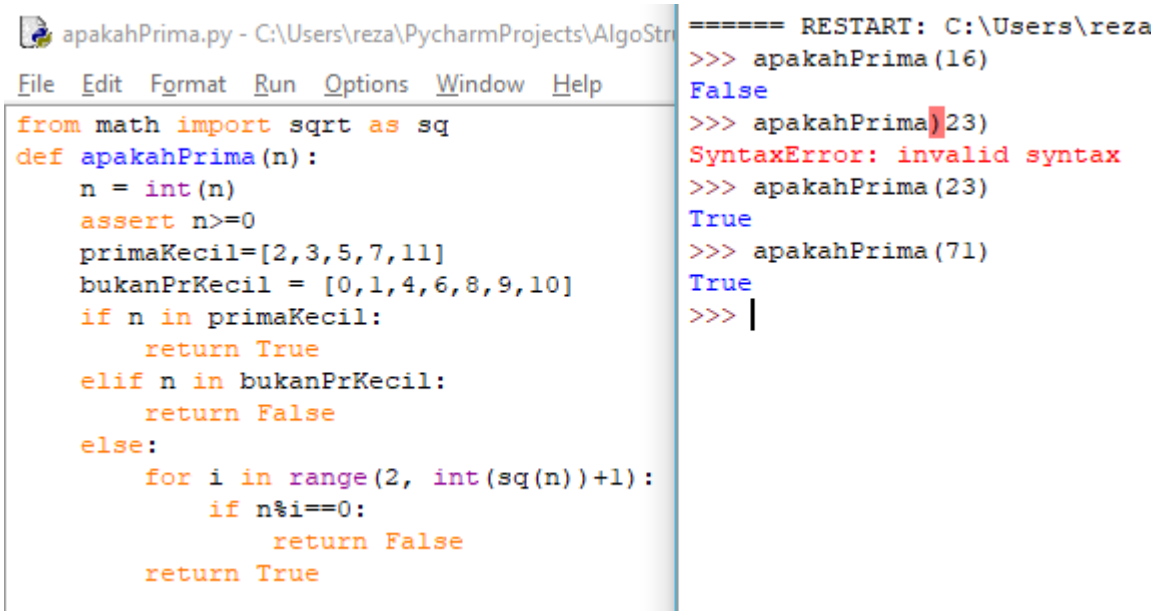
Nomor 4

File Edit Format Run Options Window

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

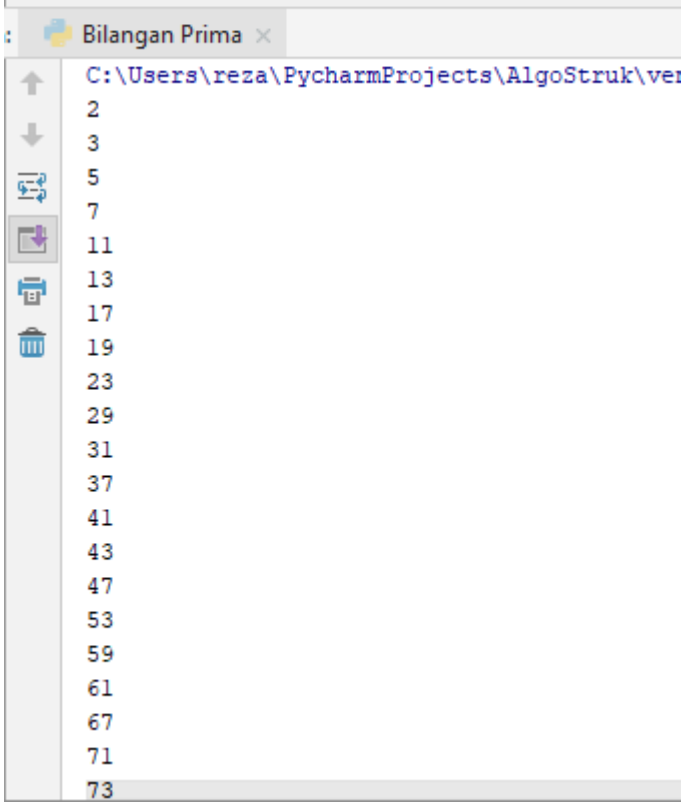
```
(9, 5)
>>>
========= RESTART: C:\Users\reza\PycharmPro
>>> rerata([1,2,3,4,5])
3.0
>>> g = [4,7,3,5,7,3,2,6,7,4,5,3,9,20,18]
>>> rerata(g)
6.866666666666666
>>>
```

Nomor 5

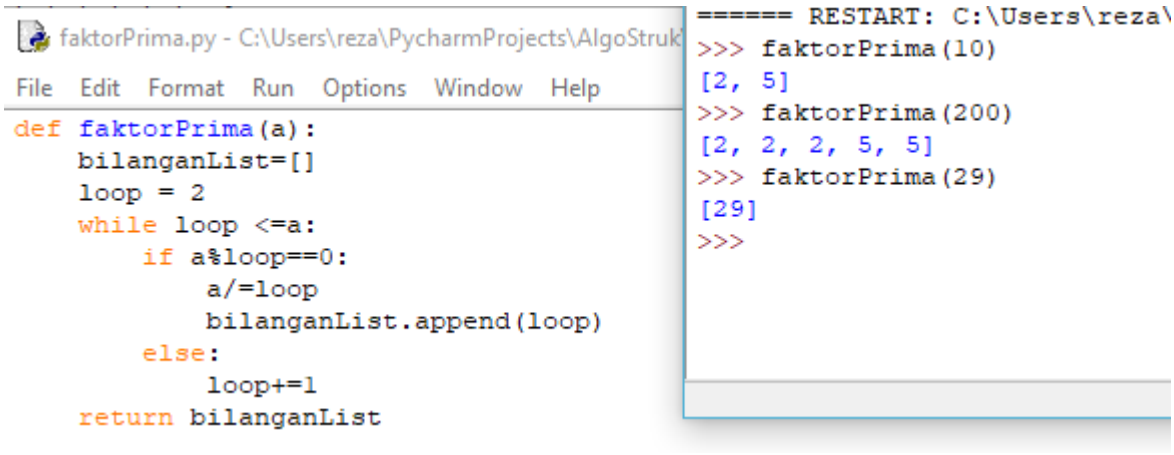

apakahPrima.py - C:\Users\reza\PycharmProjects\AlgoStr
File Edit Format Run Options Window Help
from math import sqrt as sq
def apakahPrima(n):
n = int(n)
assert n>=0
primaKecil=[2,3,5,7,11]
bukanPrKecil = [0,1,4,6,8,9,10]
if n in primaKecil:
return True
elif n in bukanPrKecil:
return False
else:
for i in range(2, int(sq(n))+1):
if n%i==0:
return False
return True
====== RESTART: C:\Users\reza
>>> apakahPrima(16)
False
>>> apakahPrima)23)
SyntaxError: invalid syntax
>>> apakahPrima(23)
True
>>> apakahPrima(71)
True
>>>

Nomor 6

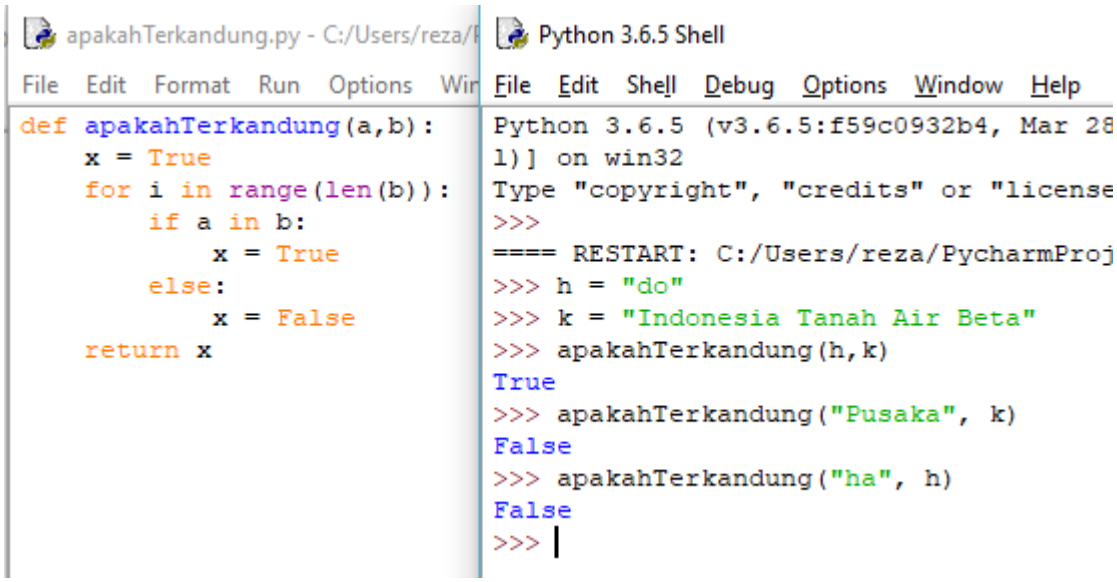
```
lower = 2
upper = 1000
if lower>=1 and upper>1:
    for x in range(lower,upper):
        prima=True
        for i in range(2,x):
            if(x%i==0):
                prima=False
        if prima==True:
            print(x)
else :
    print("Bukan Bilangan Prima")
```



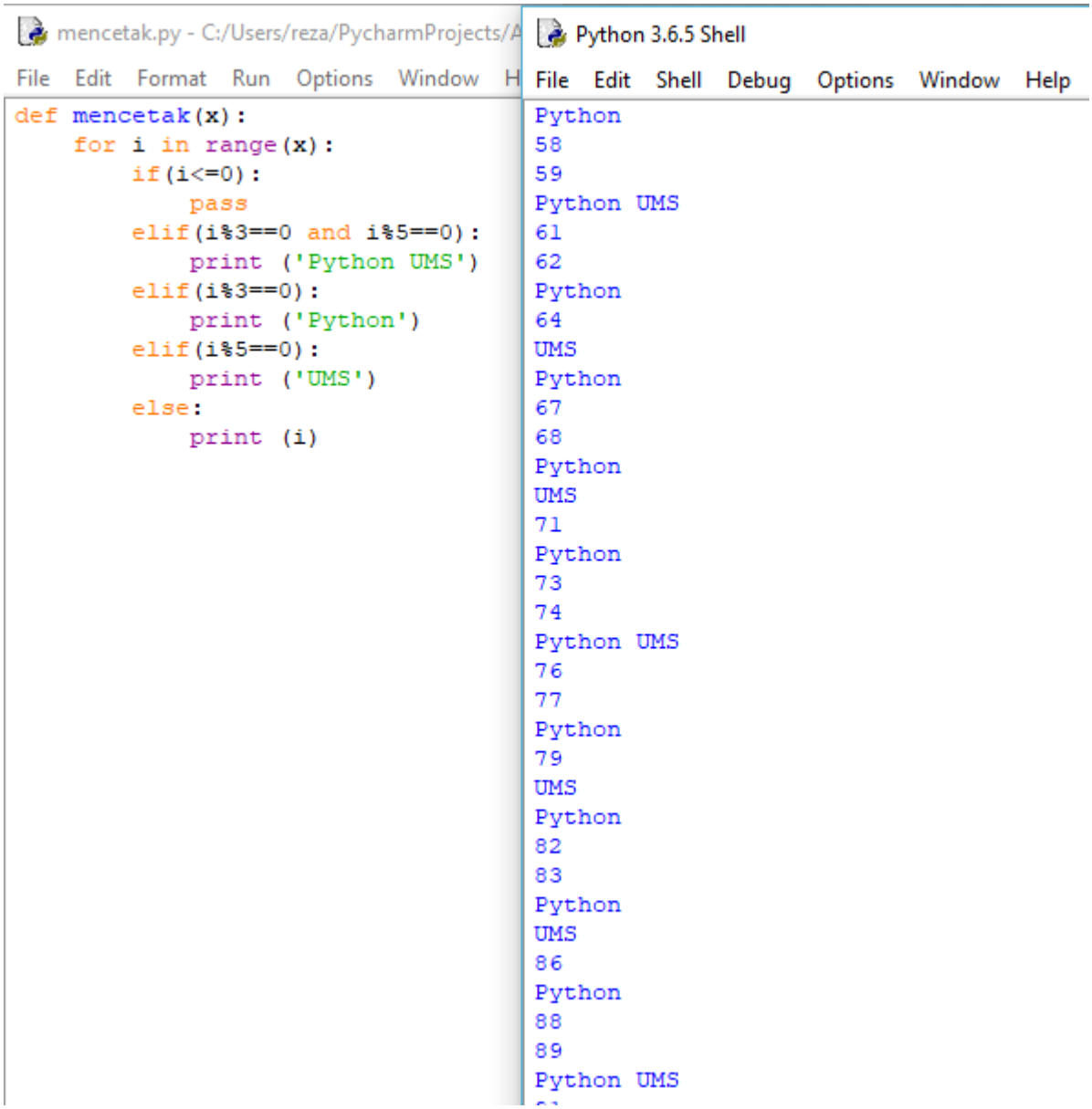
Nomor 7



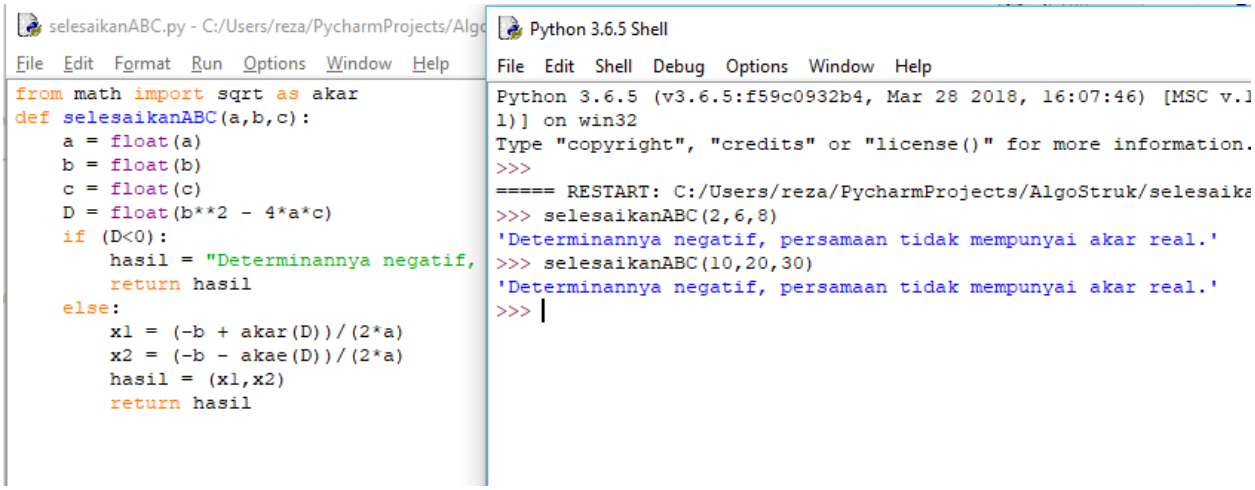
Nomor 8



Nomor 9


mencetak.py - C:/Users/reza/PycharmProjects/A
File Edit Format Run Options Window H
def mencetak(x):
for i in range(x):
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 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python
58
59
Python UMS
61
62
Python
64
UMS
Python
67
68
Python
UMS
71
Python
73
74
Python UMS
76
77
Python
79
UMS
Python
82
83
Python
UMS
86
Python
88
89
Python UMS

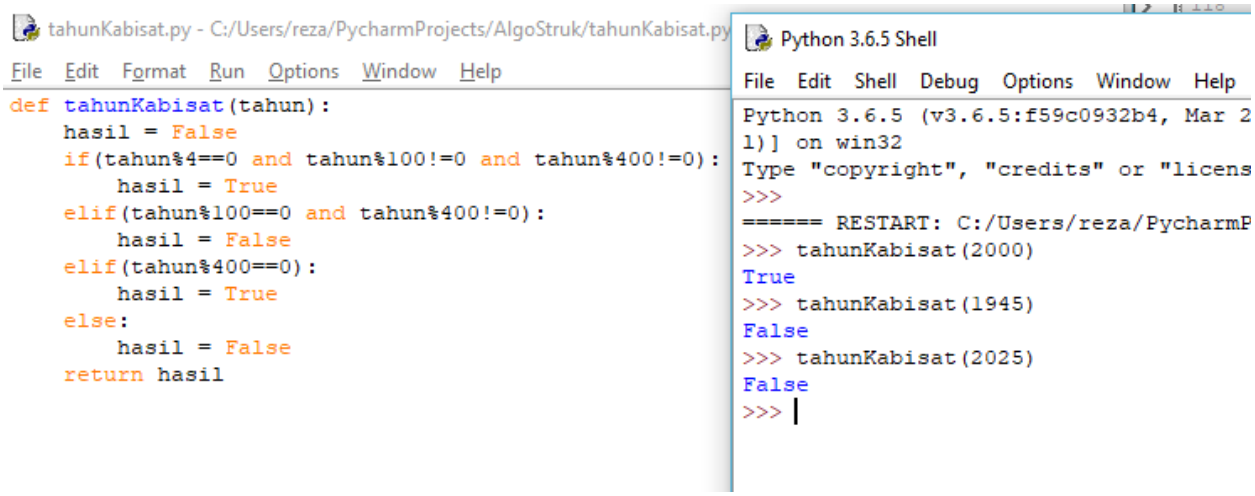
Nomor 10



```
selesaikanABC.py - C:/Users/reza/PycharmProjects/Algo
File  Edit  Format  Run  Options  Window  Help
from math import sqrt as akar
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 = "Determinannya negatif,
        return hasil
    else:
        x1 = (-b + akar(D))/(2*a)
        x2 = (-b - akae(D))/(2*a)
        hasil = (x1,x2)
        return hasil
```

```
Python 3.6.5 Shell
File  Edit  Shell  Debug  Options  Window  Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/reza/PycharmProjects/AlgoStruk/selesaika
>>> selesaikanABC(2,6,8)
'Determinannya negatif, persamaan tidak mempunyai akar real.'
>>> selesaikanABC(10,20,30)
'Determinannya negatif, persamaan tidak mempunyai akar real.'
>>>
```

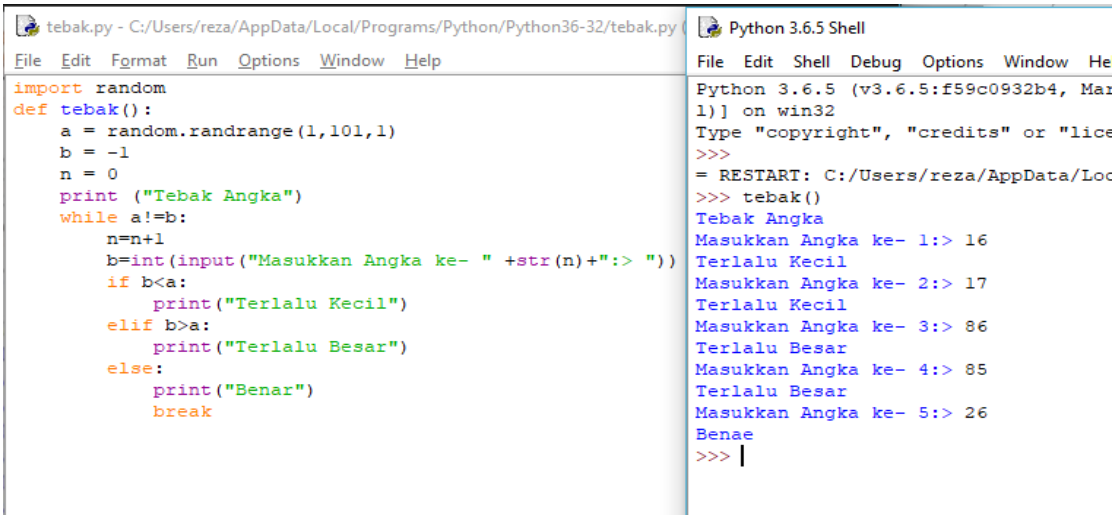
Nomor 11



```
tahunKabisat.py - C:/Users/reza/PycharmProjects/AlgoStruk/tahunKabisat.py
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 3.6.5 Shell
File  Edit  Shell  Debug  Options  Window  Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 2
l)] on win32
Type "copyright", "credits" or "licens
>>>
====== RESTART: C:/Users/reza/PycharmP
>>> tahunKabisat(2000)
True
>>> tahunKabisat(1945)
False
>>> tahunKabisat(2025)
False
>>>
```

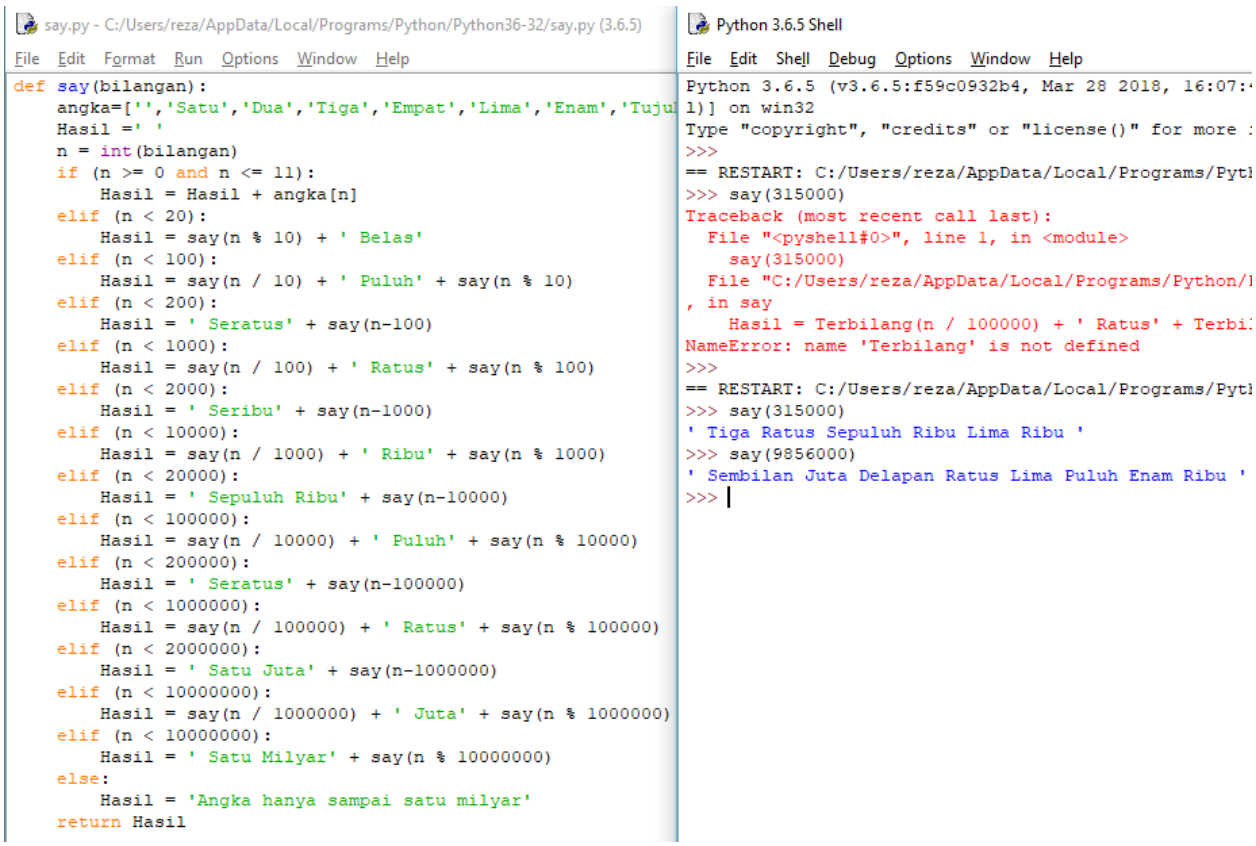
Nomor 12



```
tebak.py - C:/Users/reza/AppData/Local/Programs/Python/Python36-32/tebak.py
File  Edit  Format  Run  Options  Window  Help
import random
def tebak():
    a = random.randrange(1,101,1)
    b = -1
    n = 0
    print ("Tebak Angka")
    while a!=b:
        n=n+1
        b=int(input("Masukkan Angka ke- " +str(n)+":> "))
        if b<a:
            print("Terlalu Kecil")
        elif b>a:
            print("Terlalu Besar")
        else:
            print("Benar")
            break
```

```
Python 3.6.5 Shell
File  Edit  Shell  Debug  Options  Window  He
Python 3.6.5 (v3.6.5:f59c0932b4, Mar
l)] on win32
Type "copyright", "credits" or "lice
>>>
= RESTART: C:/Users/reza/AppData/Loc
>>> tebak()
Tebak Angka
Masukkan Angka ke- 1:> 16
Terlalu Kecil
Masukkan Angka ke- 2:> 17
Terlalu Kecil
Masukkan Angka ke- 3:> 86
Terlalu Besar
Masukkan Angka ke- 4:> 85
Terlalu Besar
Masukkan Angka ke- 5:> 26
Benae
>>>
```

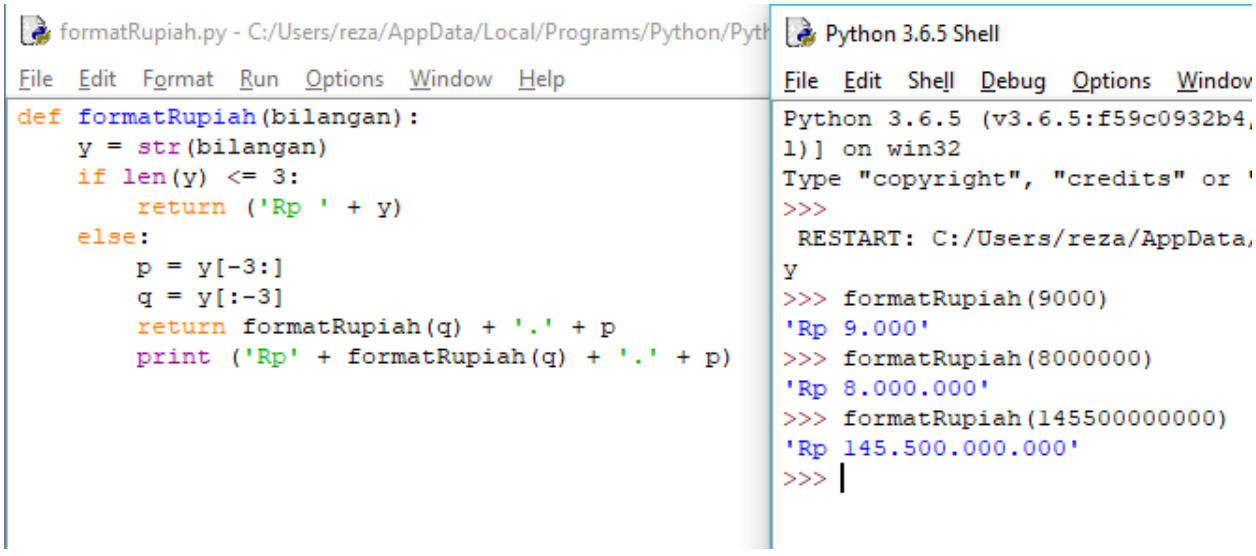
Nomor 13



```
say.py - C:/Users/reza/AppData/Local/Programs/Python/Python36-32/say.py (3.6.5)
File  Edit  Format  Run  Options  Window  Help
def say(bilangan):
    angka=['','Satu','Dua','Tiga','Empat','Lima','Enam','Tuju
    Hasil =' '
    n = int(bilangan)
    if (n >= 0 and n <= 11):
        Hasil = Hasil + angka[n]
    elif (n < 20):
        Hasil = say(n % 10) + ' Belas'
    elif (n < 100):
        Hasil = say(n / 10) + ' Puluh' + say(n % 10)
    elif (n < 200):
        Hasil = ' Seratus' + say(n-100)
    elif (n < 1000):
        Hasil = say(n / 100) + ' Ratus' + say(n % 100)
    elif (n < 2000):
        Hasil = ' Seribu' + say(n-1000)
    elif (n < 10000):
        Hasil = say(n / 1000) + ' Ribu' + say(n % 1000)
    elif (n < 20000):
        Hasil = ' Sepuluh Ribu' + say(n-10000)
    elif (n < 100000):
        Hasil = say(n / 10000) + ' Puluh' + say(n % 10000)
    elif (n < 200000):
        Hasil = ' Seratus' + say(n-100000)
    elif (n < 1000000):
        Hasil = say(n / 100000) + ' Ratus' + say(n % 100000)
    elif (n < 2000000):
        Hasil = ' Satu Juta' + say(n-1000000)
    elif (n < 10000000):
        Hasil = say(n / 1000000) + ' Juta' + say(n % 1000000)
    elif (n < 10000000):
        Hasil = ' Satu Milyar' + say(n % 10000000)
    else:
        Hasil = 'Angka hanya sampai satu milyar'
    return Hasil
```

```
Python 3.6.5 Shell
File  Edit  Shell  Debug  Options  Window  Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:
1)] on win32
Type "copyright", "credits" or "license()" for more
>>>
== RESTART: C:/Users/reza/AppData/Local/Programs/Pyth
>>> say(315000)
Traceback (most recent call last):
  File "<pyshell#0>", line 1, in <module>
    say(315000)
  File "C:/Users/reza/AppData/Local/Programs/Python/
, in say
    Hasil = Terbilang(n / 100000) + ' Ratus' + Terbi
NameError: name 'Terbilang' is not defined
>>>
== RESTART: C:/Users/reza/AppData/Local/Programs/Pyth
>>> say(315000)
' Tiga Ratus Sepuluh Ribu Lima Ribu '
>>> say(9856000)
' Sembilan Juta Delapan Ratus Lima Puluh Enam Ribu '
>>>
```

Nomor 14



```
formatRupiah.py - C:/Users/reza/AppData/Local/Programs/Python/Pyth
File  Edit  Format  Run  Options  Window  Help
def formatRupiah(bilangan):
    y = str(bilangan)
    if len(y) <= 3:
        return ('Rp ' + y)
    else:
        p = y[-3:]
        q = y[:-3]
        return formatRupiah(q) + '.' + p
        print ('Rp' + formatRupiah(q) + '.' + p)
```

```
Python 3.6.5 Shell
File  Edit  Shell  Debug  Options  Windov
Python 3.6.5 (v3.6.5:f59c0932b4,
1)] on win32
Type "copyright", "credits" or '
>>>
 RESTART: C:/Users/reza/AppData/
y
>>> formatRupiah(9000)
'Rp 9.000'
>>> formatRupiah(8000000)
'Rp 8.000.000'
>>> formatRupiah(145500000000)
'Rp 145.500.000.000'
>>>
```