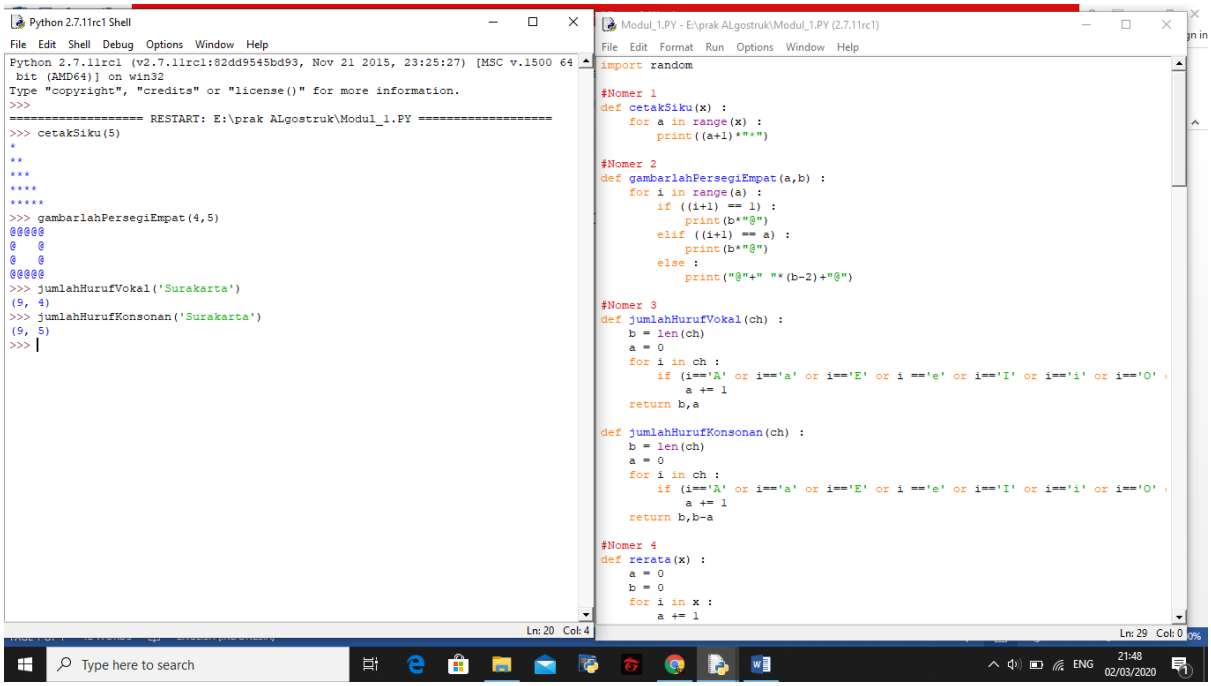
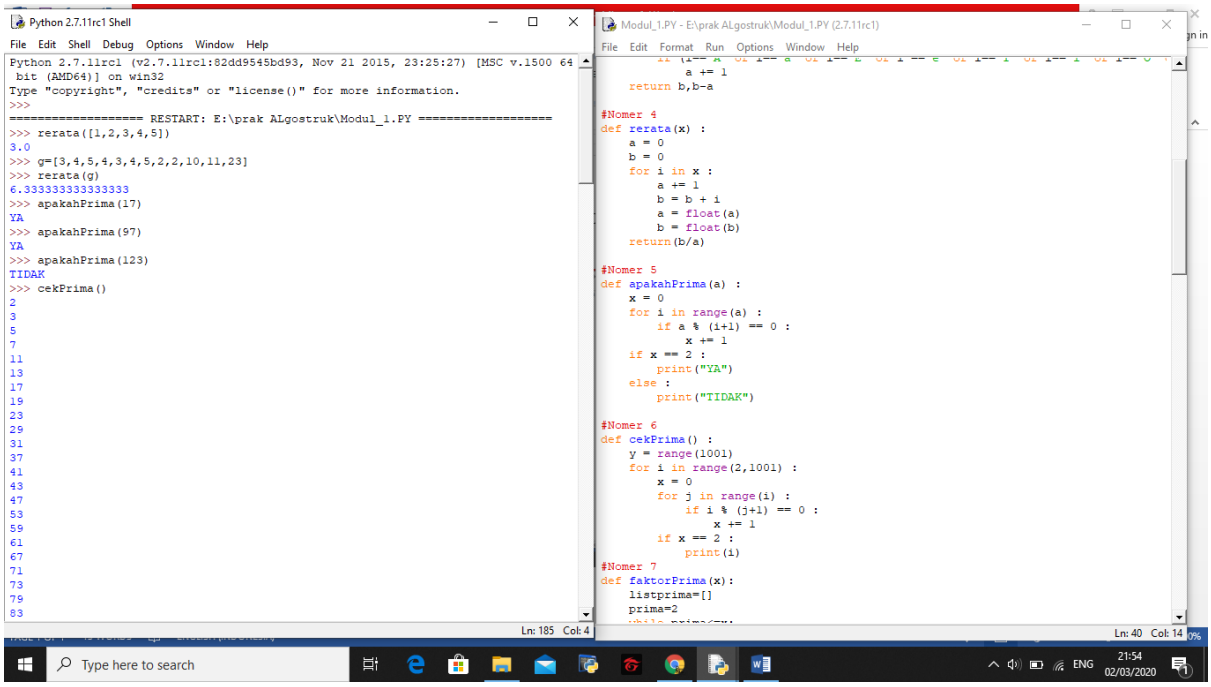
Nama : Nur Fadlilah Azzis
NIM : L200180113

# MODUL 1

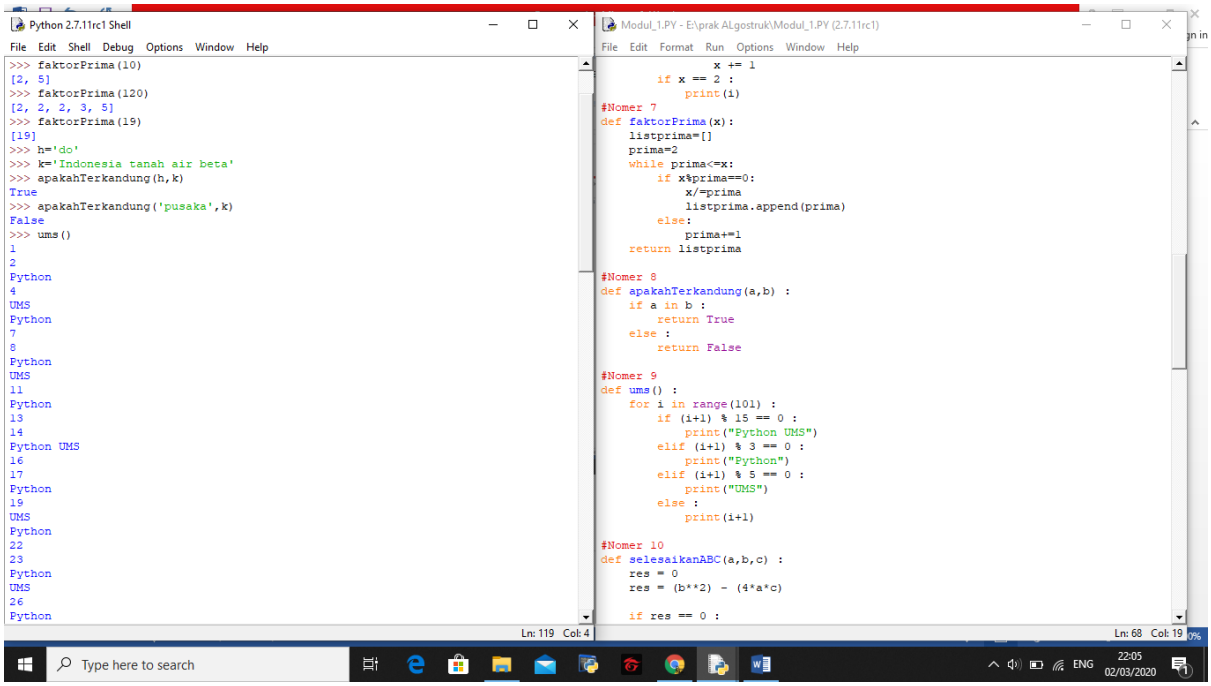
## No. 1-3




## No. 4-6



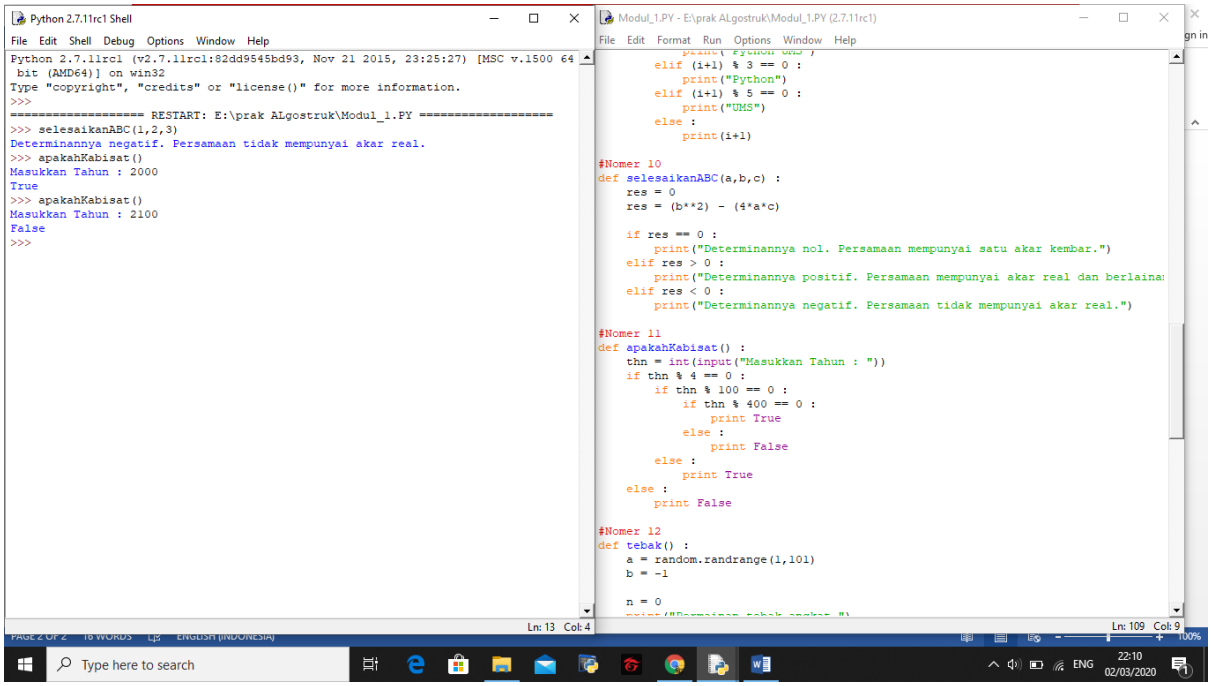
# No. 7-9



```
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 2, 3, 5]
>>> faktorPrima(19)
[19]
>>> h='do'
>>> k='Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>> 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
```

```
                x += 1
        if x == 2 :
            print(i)
#Nomer 7
def faktorPrima(x):
    listprima=[]
    prima=2
    while prima<=x:
        if x%prima==0:
            x/=prima
            listprima.append(prima)
        else:
            prima+=1
    return listprima

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

#Nomer 9
def ums() :
    for i in range(101) :
        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)

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

    if res == 0 :
```

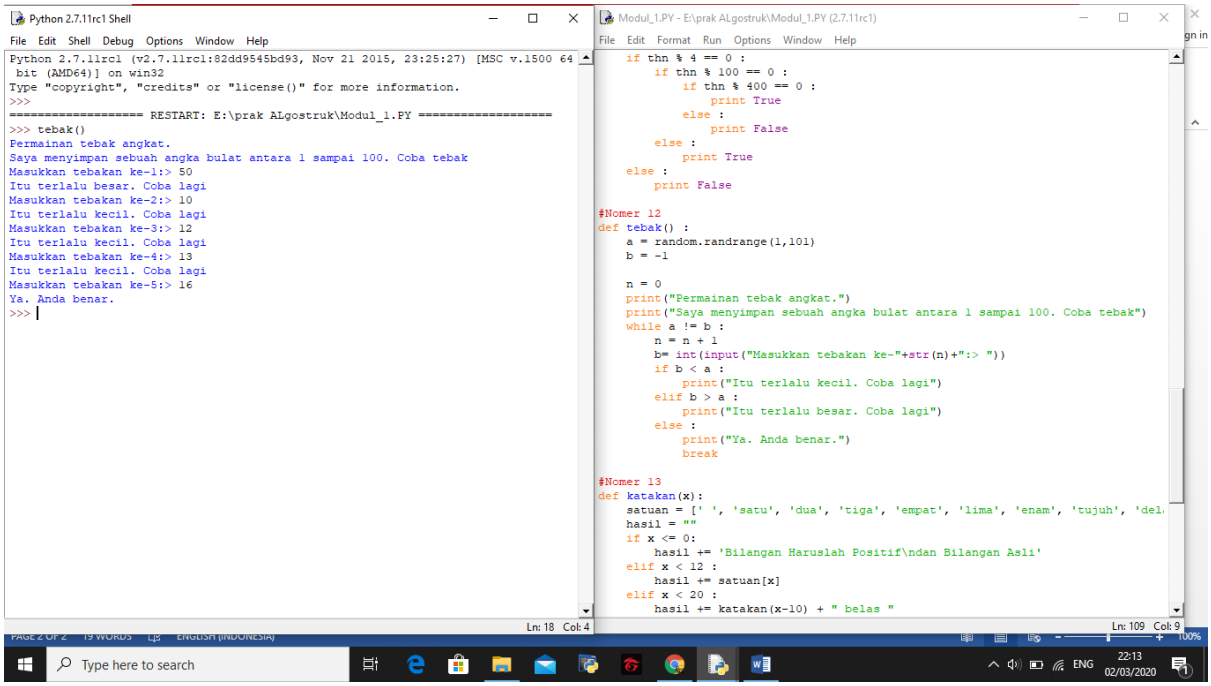
# No. 10-11



```
Python 2.7.11rc1 (v2.7.11rc1:82dd95545bd93, Nov 21 2015, 23:25:27) [MSC v.1500 64
 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:\prak ALgostruk\Modul_1.PY ==========
>>> selesaikanABC(1,2,3)
Determinannya negatif. Persamaan tidak mempunyai akar real.
>>> apakahKabisat()
Masukkan Tahun : 2000
True
>>> apakahKabisat()
Masukkan Tahun : 2100
False
>>>
```

```
        elif (i+1) % 3 == 0 :
            print("Python")
        elif (i+1) % 5 == 0 :
            print("UMS")
        else :
            print(i+1)

#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 berlaina
    elif res < 0 :
        print("Determinannya negatif. Persamaan tidak mempunyai akar real.")

#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

#Nomer 12
def tebak() :
    a = random.randrange(1,101)
    b = -1

    n = 0
```

# No.12



Python 2.7.11rc1 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Python 2.7.11rc1 (v2.7.11rc1:82dd9545bd93, Nov 21 2015, 23:25:27) [MSC v.1500 64
 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:\prak ALgostruk\Modul_1.PY ==========
>>> tebak()
Permainan tebak angkat.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak
Masukkan tebakan ke-1:> 50
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-2:> 10
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-3:> 12
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-4:> 13
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-5:> 16
Ya. Anda benar.
>>>
```

Ln: 18 Col: 4

Modul_1.PY - E:\prak ALgostruk\Modul_1.PY (2.7.11rc1)

```
File  Edit  Format  Run  Options  Window  Help
    if thn % 4 == 0 :
        if thn % 100 == 0 :
            if thn % 400 == 0 :
                print True
            else :
                print False
        else :
            print True
    else :
        print False

#Nomer 12
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

#Nomer 13
def katakan(x):
    satuan = [' ', 'satu', 'dua', 'tiga', 'empat', 'lima', 'enam', 'tujuh', 'del
    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 "
```

Ln: 109 Col: 9

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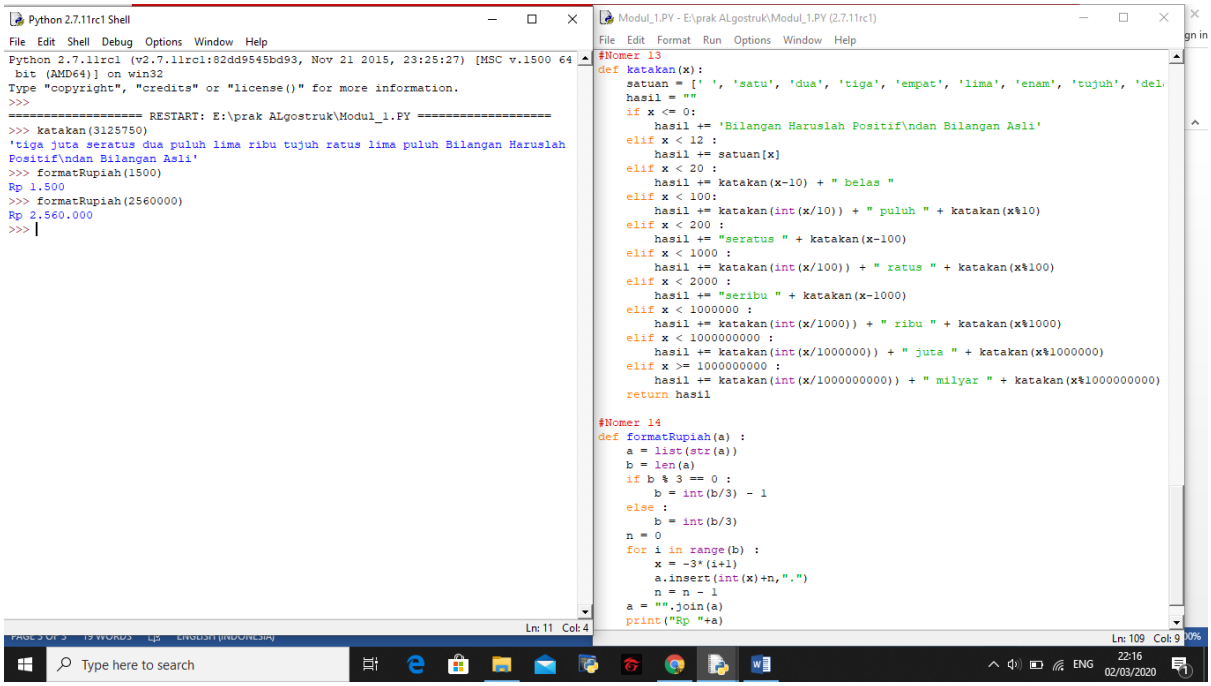
# No. 13-14



Python 2.7.11rc1 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Python 2.7.11rc1 (v2.7.11rc1:82dd9545bd93, Nov 21 2015, 23:25:27) [MSC v.1500 64
 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:\prak ALgostruk\Modul_1.PY ==========
>>> katakan(3125750)
'tiga juta seratus dua puluh lima ribu tujuh ratus lima puluh Bilangan Haruslah
Positif\ndan Bilangan Asli'
>>> formatRupiah(1500)
Rp 1.500
>>> formatRupiah(2560000)
Rp 2.560.000
>>>
```

Ln: 11 Col: 4

Modul_1.PY - E:\prak ALgostruk\Modul_1.PY (2.7.11rc1)

```
File  Edit  Format  Run  Options  Window  Help
#Nomer 13
def katakan(x):
    satuan = [' ', 'satu', 'dua', 'tiga', 'empat', 'lima', 'enam', 'tujuh', 'del
    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)
    return hasil

#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)
```

Ln: 109 Col: 9

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