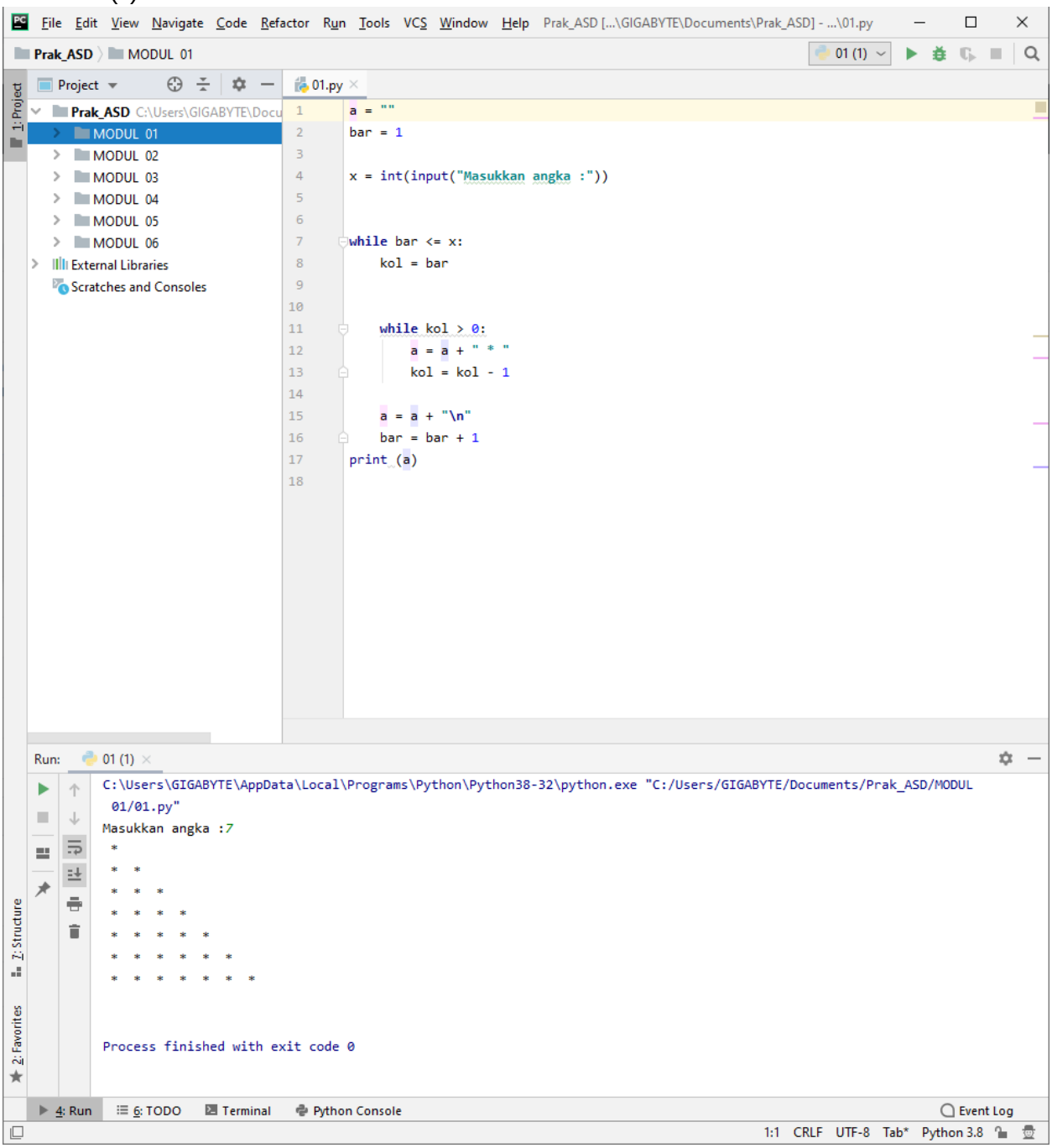
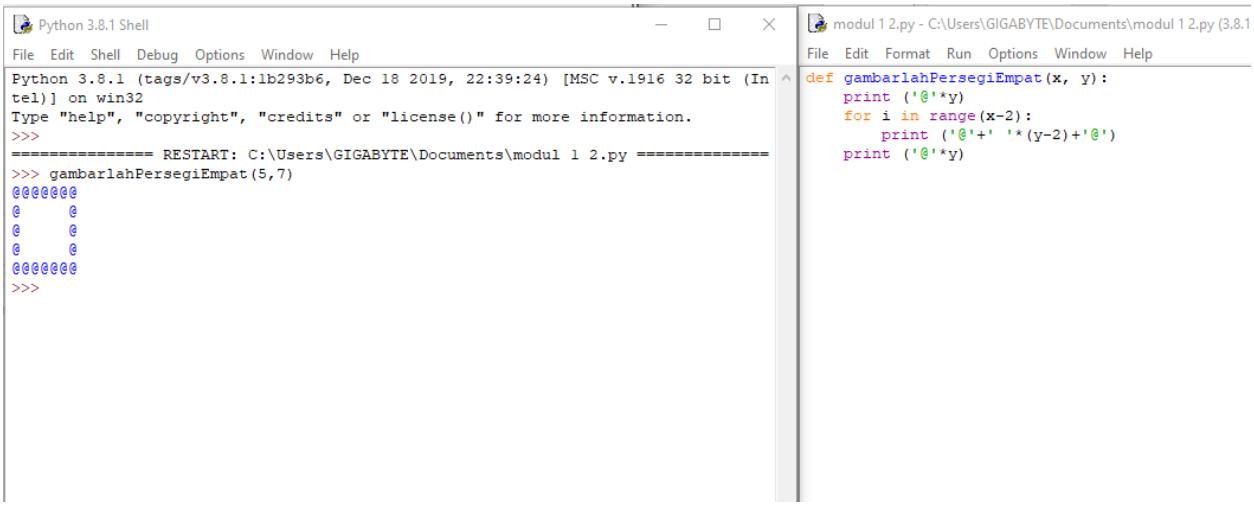
Nama : W. Faisal Hari Dewanto
NIM : L200180046
Kelas : B

Modul 1

1. Fungsi
cetakSiku(x)



2. Fungsi yang menerima dua integer



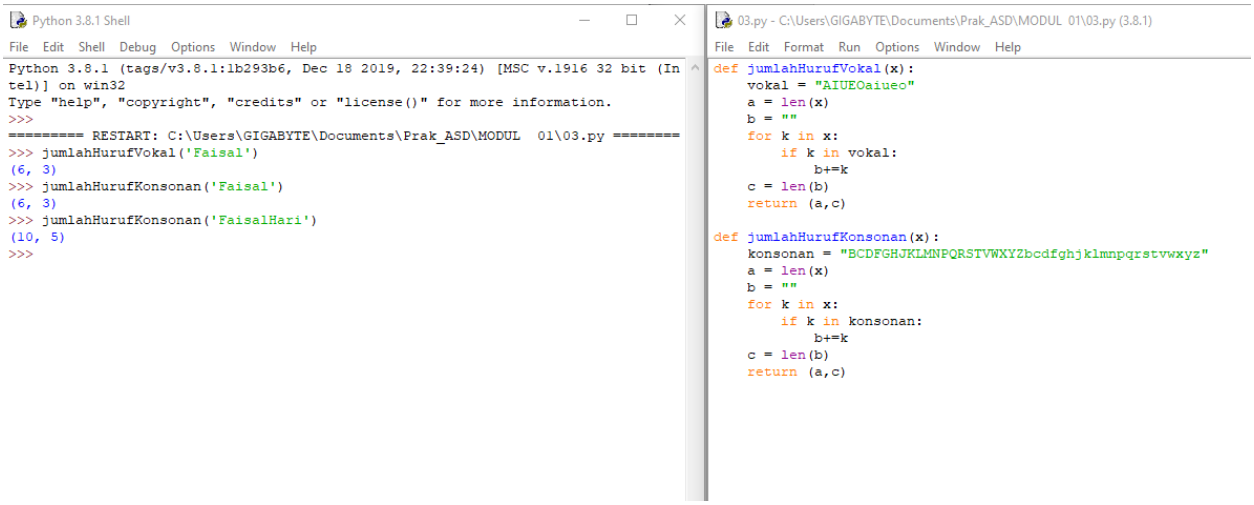
Python 3.8.1 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\GIGABYTE\Documents\modul 1 2.py ==========
>>> gambarlahPersegiEmpat(5,7)
@@@@@@@
@     @
@     @
@     @
@@@@@@@
>>>
```

modul 1 2.py - C:\Users\GIGABYTE\Documents\modul 1 2.py (3.8.1

```
File  Edit  Format  Run  Options  Window  Help
def gambarlahPersegiEmpat(x, y):
    print ('@'*y)
    for i in range(x-2):
        print ('@'+' '*(y-2)+'@')
    print ('@'*y)
```

3. Fungsi menerima sebuah string dan hitung huruf konsonan



Python 3.8.1 Shell

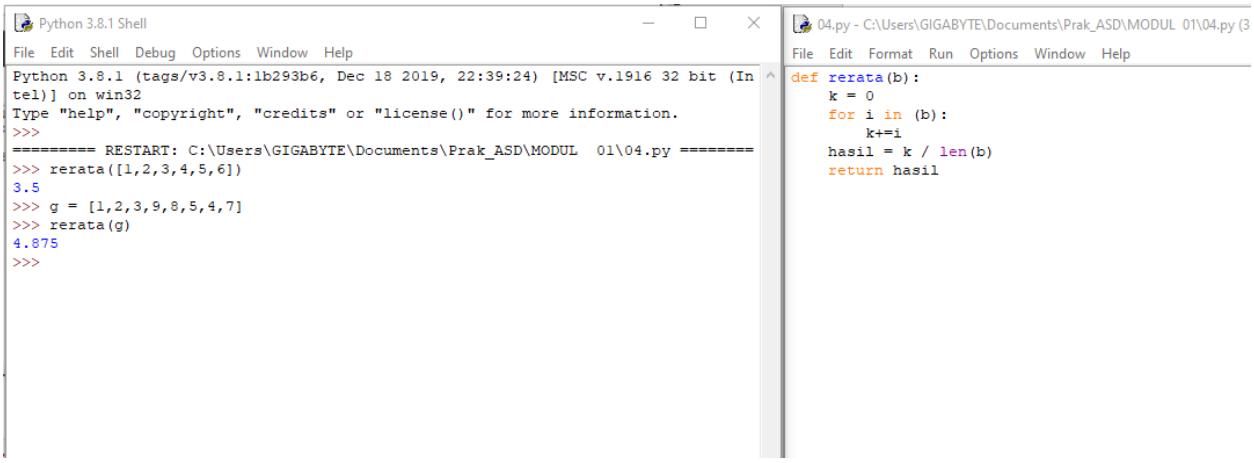
```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\03.py ========
>>> jumlahHurufVokal('Faisal')
(6, 3)
>>> jumlahHurufKonsonan('Faisal')
(6, 3)
>>> jumlahHurufKonsonan('FaisalHari')
(10, 5)
>>>
```

03.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL 01\03.py (3.8.1)

```
File  Edit  Format  Run  Options  Window  Help
def jumlahHurufVokal(x):
    vokal = "AIUEOaiueo"
    a = len(x)
    b = ""
    for k in x:
        if k in vokal:
            b+=k
    c = len(b)
    return (a,c)

def jumlahHurufKonsonan(x):
    konsonan = "BCDFGHJKLMNPQRSTVWXYZbcdfghjklmnpqrstvwxyz"
    a = len(x)
    b = ""
    for k in x:
        if k in konsonan:
            b+=k
    c = len(b)
    return (a,c)
```

4. Fungsi rerata



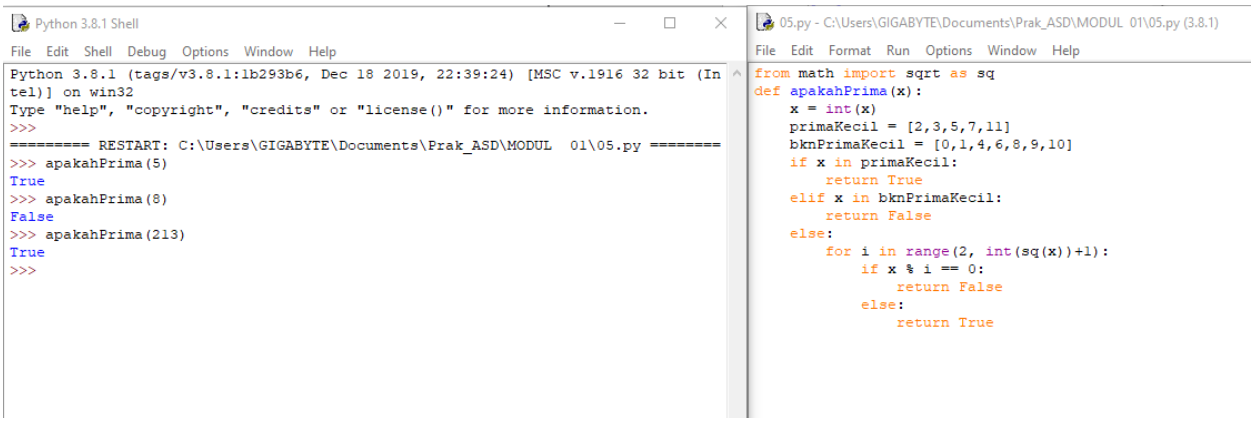
Python 3.8.1 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\04.py ========
>>> rerata([1,2,3,4,5,6])
3.5
>>> g = [1,2,3,9,8,5,4,7]
>>> rerata(g)
4.875
>>>
```

04.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL 01\04.py (3

```
File  Edit  Format  Run  Options  Window  Help
def rerata(b):
    k = 0
    for i in (b):
        k+=i
    hasil = k / len(b)
    return hasil
```

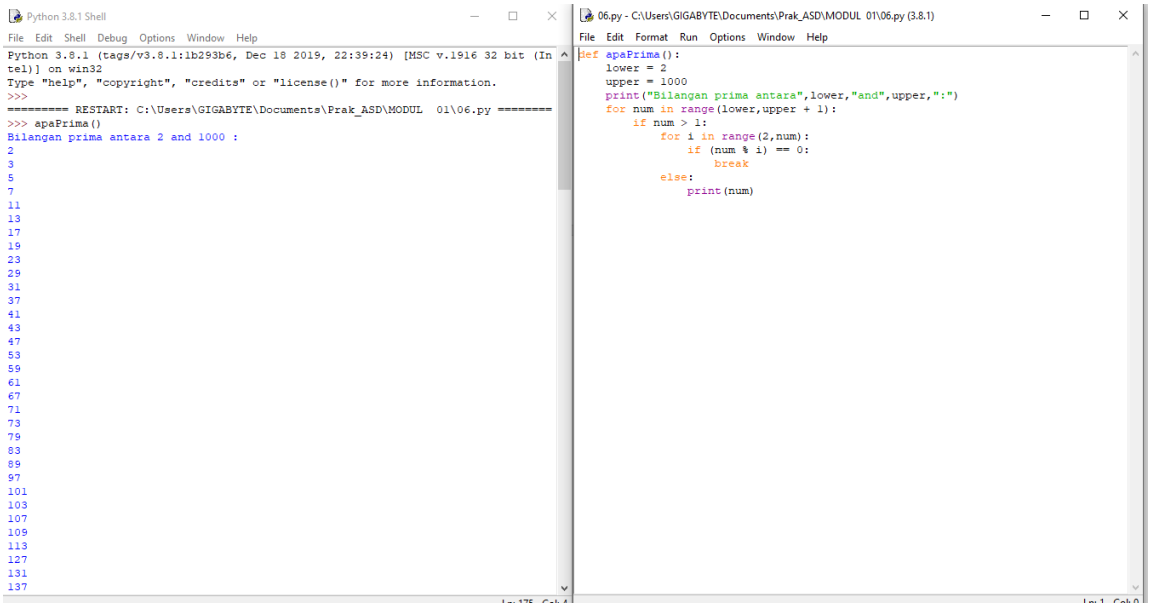
5. Fungsi bilangan prima



```
Python 3.8.1 Shell
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\05.py ========
>>> apakahPrima(5)
True
>>> apakahPrima(8)
False
>>> apakahPrima(213)
True
>>>
```

```
05.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\05.py (3.8.1)
File  Edit  Format  Run  Options  Window  Help
from math import sqrt as sq
def apakahPrima(x):
    x = int(x)
    primaKecil = [2,3,5,7,11]
    bknPrimaKecil = [0,1,4,6,8,9,10]
    if x in primaKecil:
        return True
    elif x in bknPrimaKecil:
        return False
    else:
        for i in range(2, int(sq(x))+1):
            if x % i == 0:
                return False
            else:
                return True
```

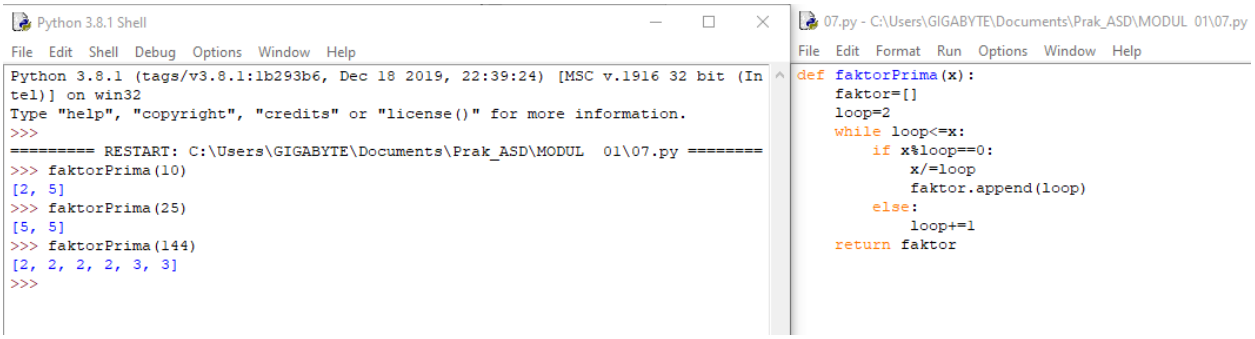
6. Fungsi bilangan prima



```
Python 3.8.1 Shell
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\06.py ========
>>> apaPrima()
Bilangan prima antara 2 and 1000 :
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
```

```
06.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\06.py (3.8.1)
File  Edit  Format  Run  Options  Window  Help
def apaPrima():
    lower = 2
    upper = 1000
    print("Bilangan prima antara",lower,"and",upper,":")
    for num in range(lower,upper + 1):
        if num > 1:
            for i in range(2,num):
                if (num % i) == 0:
                    break
            else:
                print(num)
```

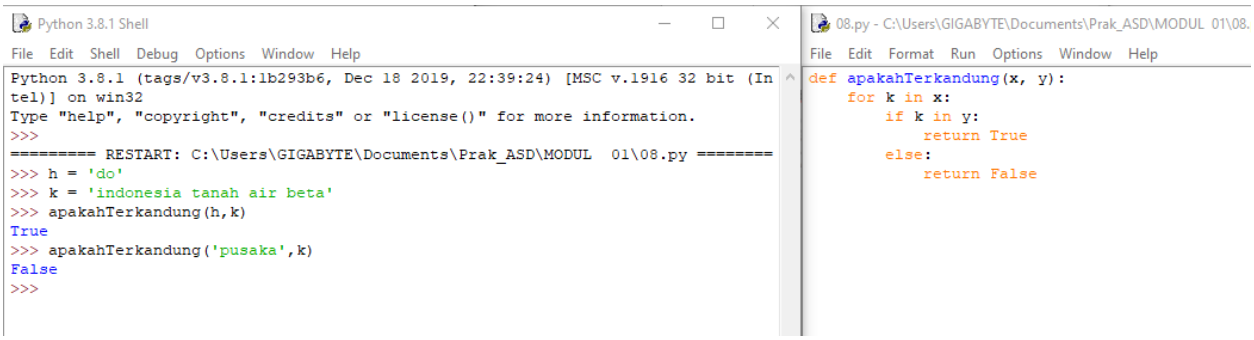
7. Bilangan positif



```
Python 3.8.1 Shell
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\07.py ========
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(25)
[5, 5]
>>> faktorPrima(144)
[2, 2, 2, 2, 3, 3]
>>>
```

```
07.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\07.py
File  Edit  Format  Run  Options  Window  Help
def faktorPrima(x):
    faktor=[]
    loop=2
    while loop<=x:
        if x%loop==0:
            x/=loop
            faktor.append(loop)
        else:
            loop+=1
    return faktor
```

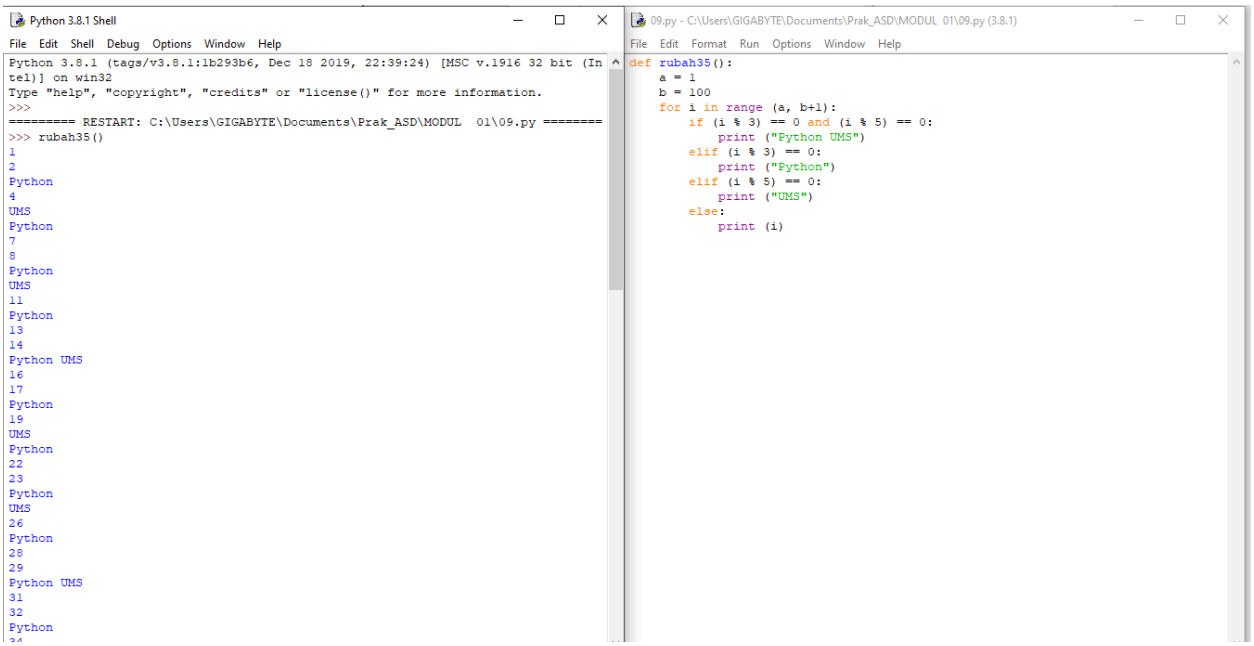
8. Fungsi



```
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\08.py ========
>>> h = 'do'
>>> k = 'indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>>
```

```
08.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\08.
File Edit Format Run Options Window Help
def apakahTerkandung(x, y):
    for k in x:
        if k in y:
            return True
        else:
            return False
```

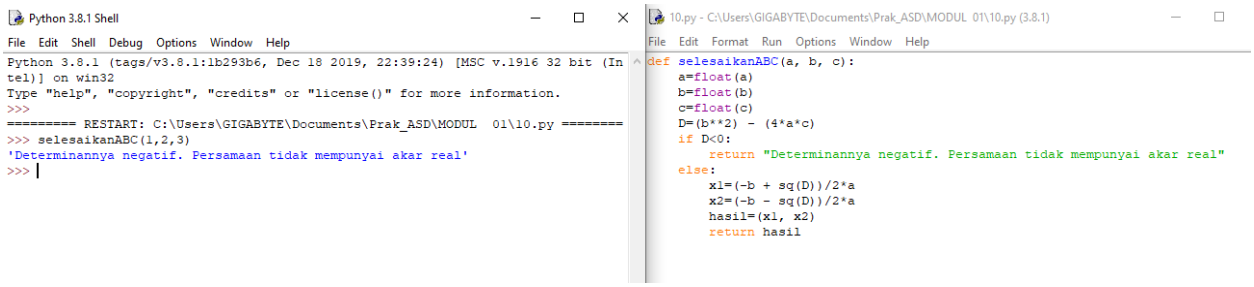
9. Program



```
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\09.py ========
>>> rubah35()
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
```

```
09.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\09.py (3.8.1)
File Edit Format Run Options Window Help
def rubah35():
    a = 1
    b = 100
    for i in range (a, b+1):
        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)
```

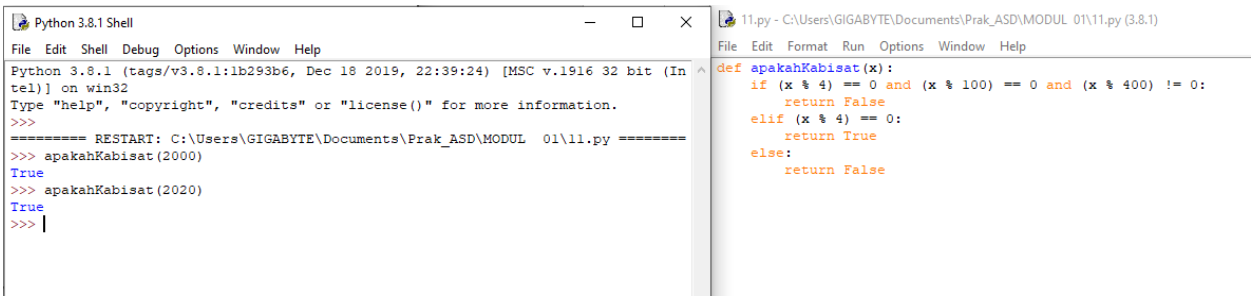
10. Modifikasi



```
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\10.py ========
>>> selesaikanABC(1,2,3)
'Determinannya negatif. Persamaan tidak mempunyai akar real'
>>>
```

```
10.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\10.py (3.8.1)
File Edit Format Run Options Window Help
def selesaikanABC(a, b, c):
    a=float(a)
    b=float(b)
    c=float(c)
    D=(b**2) - (4*a*c)
    if D<0:
        return "Determinannya negatif. Persamaan tidak mempunyai akar real"
    else:
        x1=(-b + sq(D))/2*a
        x2=(-b - sq(D))/2*a
        hasil=(x1, x2)
        return hasil
```

11. Fungsi



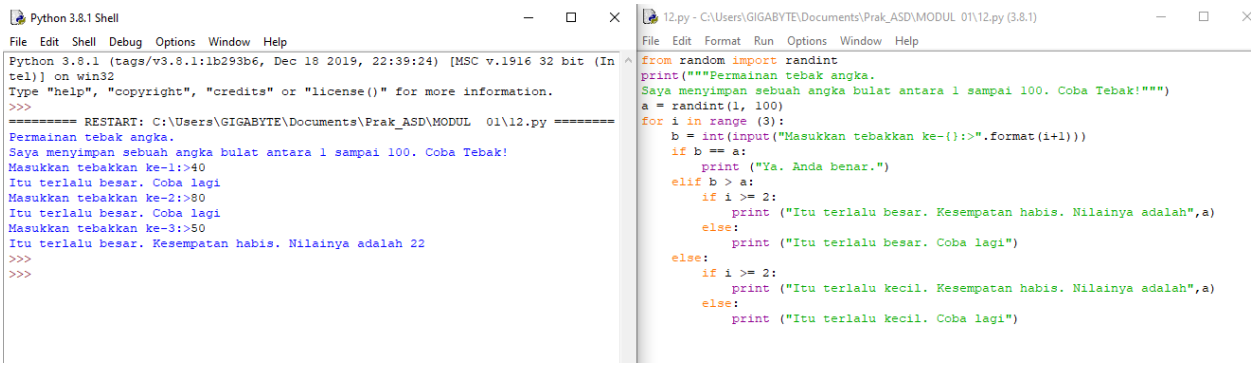
Python 3.8.1 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\11.py ========
>>> apakahKabisat(2000)
True
>>> apakahKabisat(2020)
True
>>>
```

11.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL 01\11.py (3.8.1)

```
File  Edit  Format  Run  Options  Window  Help
def apakahKabisat(x):
    if (x % 4) == 0 and (x % 100) == 0 and (x % 400) != 0:
        return False
    elif (x % 4) == 0:
        return True
    else:
        return False
```

12. Fungsi



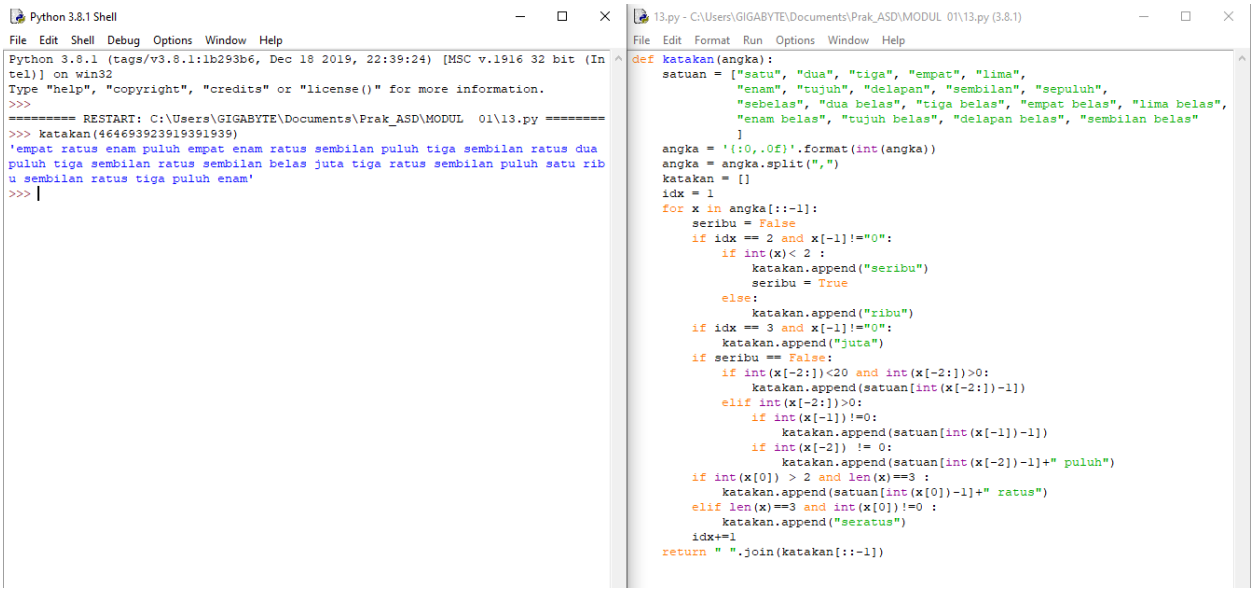
Python 3.8.1 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\12.py ========
Permainan tebak angka.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba Tebak!
Masukkan tebakkan ke-1:>40
Itu terlalu besar. Coba lagi
Masukkan tebakkan ke-2:>80
Itu terlalu besar. Coba lagi
Masukkan tebakkan ke-3:>50
Itu terlalu besar. Kesempatan habis. Nilainya adalah 22
>>>
>>>
```

12.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL 01\12.py (3.8.1)

```
File  Edit  Format  Run  Options  Window  Help
from random import randint
print("""Permainan tebak angka.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba Tebak!""")
a = randint(1, 100)
for i in range (3):
    b = int(input("Masukkan tebakkan ke-{}:>".format(i+1)))
    if b == a:
        print ("Ya. Anda benar.")
    elif b > a:
        if i >= 2:
            print ("Itu terlalu besar. Kesempatan habis. Nilainya adalah",a)
        else:
            print ("Itu terlalu besar. Coba lagi")
    else:
        if i >= 2:
            print ("Itu terlalu kecil. Kesempatan habis. Nilainya adalah",a)
        else:
            print ("Itu terlalu kecil. Coba lagi")
```

13. Fungsi



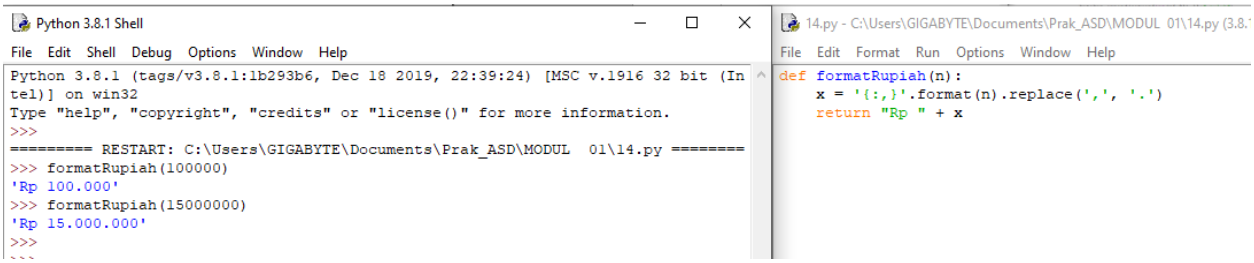
Python 3.8.1 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL  01\13.py ========
>>> katakan(4646939239193919 39)
'empat ratus enam puluh empat enam ratus sembilan puluh tiga sembilan ratus dua
puluh tiga sembilan ratus sembilan belas juta tiga ratus sembilan puluh satu rib
u sembilan ratus tiga puluh enam'
>>>
```

13.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL 01\13.py (3.8.1)

```
File  Edit  Format  Run  Options  Window  Help
def katakan(angka):
    satuan = ["satu", "dua", "tiga", "empat", "lima",
              "enam", "tujuh", "delapan", "sembilan", "sepuluh",
              "sebelas", "dua belas", "tiga belas", "empat belas", "lima belas",
              "enam belas", "tujuh belas", "delapan belas", "sembilan belas"
              ]
    angka = '{:0,.0f}'.format(int(angka))
    angka = angka.split(",")
    katakan = []
    idx = 1
    for x in angka[::-1]:
        seribu = False
        if idx == 2 and x[-1]!="0":
            if int(x)< 2 :
                katakan.append("seribu")
                seribu = True
            else:
                katakan.append("ribu")
        if idx == 3 and x[-1]!="0":
            katakan.append("juta")
        if seribu == False:
            if int(x[-2:])<20 and int(x[-2:])>0:
                katakan.append(satuan[int(x[-2:])-1])
            elif int(x[-2:])>0:
                if int(x[-1])!=0:
                    katakan.append(satuan[int(x[-1])-1])
                if int(x[-2]) != 0:
                    katakan.append(satuan[int(x[-2])-1]+" puluh")
        if int(x[0]) > 2 and len(x)==3 :
            katakan.append(satuan[int(x[0])-1]+" ratus")
        elif len(x)==3 and int(x[0])!=0 :
            katakan.append("seratus")
        idx+=1
    return " ".join(katakan[::-1])
```

14. Fungsi


Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL 01\14.py ========
>>> formatRupiah(100000)
'Rp 100.000'
>>> formatRupiah(15000000)
'Rp 15.000.000'
>>>
14.py - C:\Users\GIGABYTE\Documents\Prak_ASD\MODUL 01\14.py (3.8.
File Edit Format Run Options Window Help
def formatRupiah(n):
x = '{:,}'.format(n).replace(',', '.')
return "Rp " + x