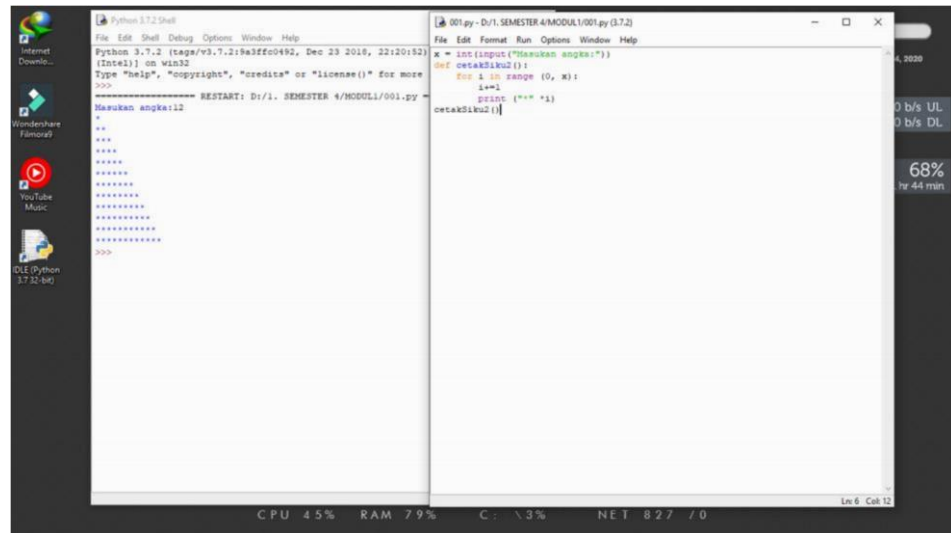


Nama : Alfian Pandu

Nim : L200180027

Kelas : A

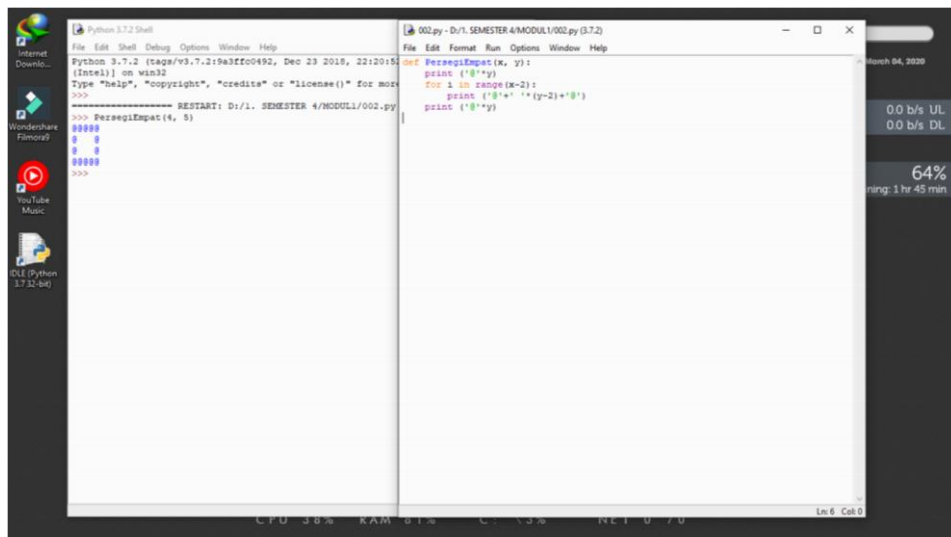
1. Nomer 1



```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:19a3f5c0492, Dec 23 2018, 22:12:01)
[Intel]] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/001.py
Masukan angka:12
*
**
***
****
*****
*****
*****
*****
*****
>>>

001.py - D:/1. SEMESTER 4/MODUL1/001.py (3.7.2)
File Edit Format Run Options Window Help
x = int(input("Masukan angka:"))
def cetak5Siku2():
    for i in range(0, x):
        i+=1
        print ("*" * i)
    cetak5Siku2()
>>>
```

2. Nomer 2

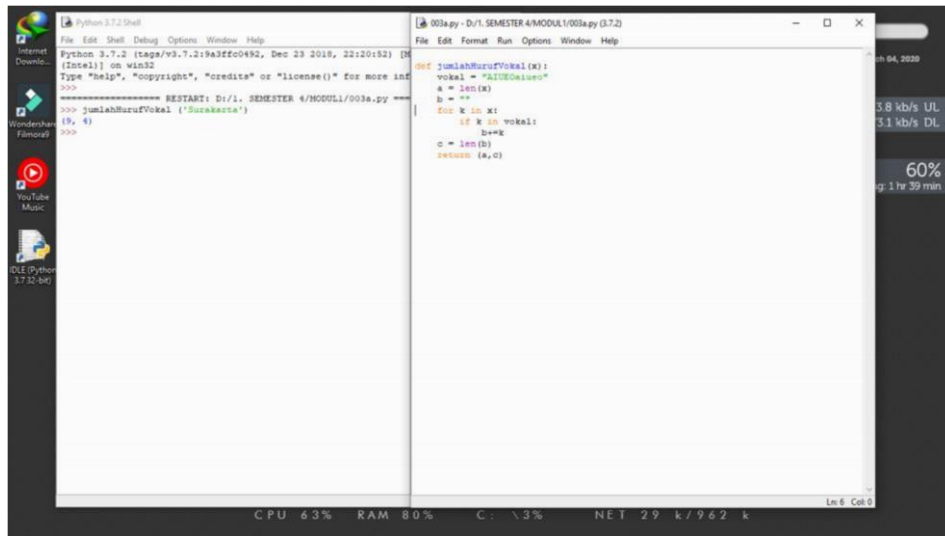


```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:19a3f5c0492, Dec 23 2018, 22:12:01)
[Intel]] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/002.py
>>> PersegiSekat (4, 5)
****
*
*
*
*
>>>

002.py - D:/1. SEMESTER 4/MODUL1/002.py (3.7.2)
File Edit Format Run Options Window Help
def PersegiSekat(x, y):
    print ("0" * y)
    for i in range(x-2):
        print ("0" * i + "1" * (y-2) + "0")
    print ("0" * y)
>>>
```

3. Nomer 3

• A



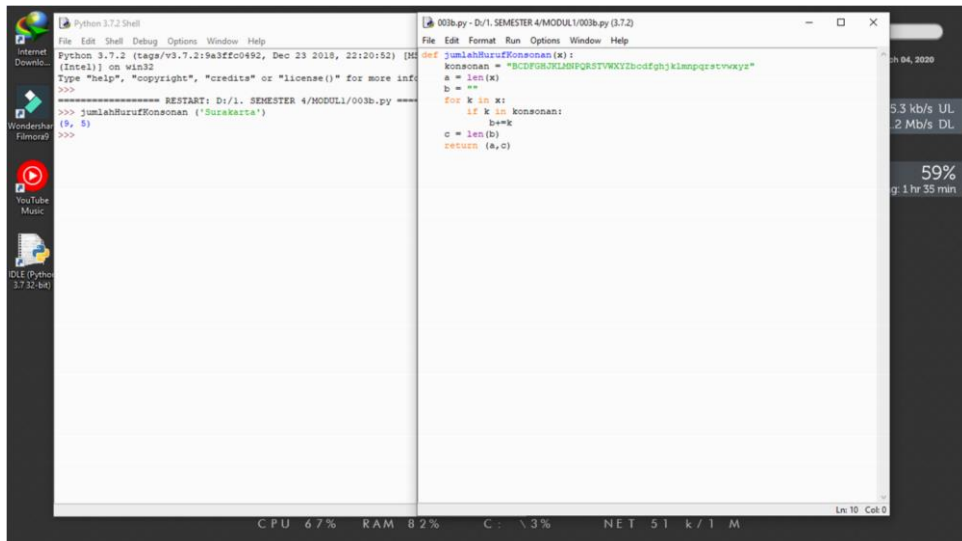
The screenshot shows a Python 3.7.2 IDE with two windows. The left window is the Python Shell, and the right window is the editor for '003a.py'. The shell shows the execution of the program, which counts the number of vowels in the string 'Suzakarta'.

```
Python 3.7.2 Shell
Python 3.7.2 (tags/v3.7.2:19a3ff0492, Dec 23 2018, 22:20:52) [Intel] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/003a.py
>>> jumlahHurufVokal('Suzakarta')
(9, 4)
>>>
```

```
003a.py - D:/1. SEMESTER 4/MODUL1/003a.py (3.7.2)
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)
```

CPU 63% RAM 80% C: \3% NET 29 k/962 k Ln: 6 Col: 0

• B



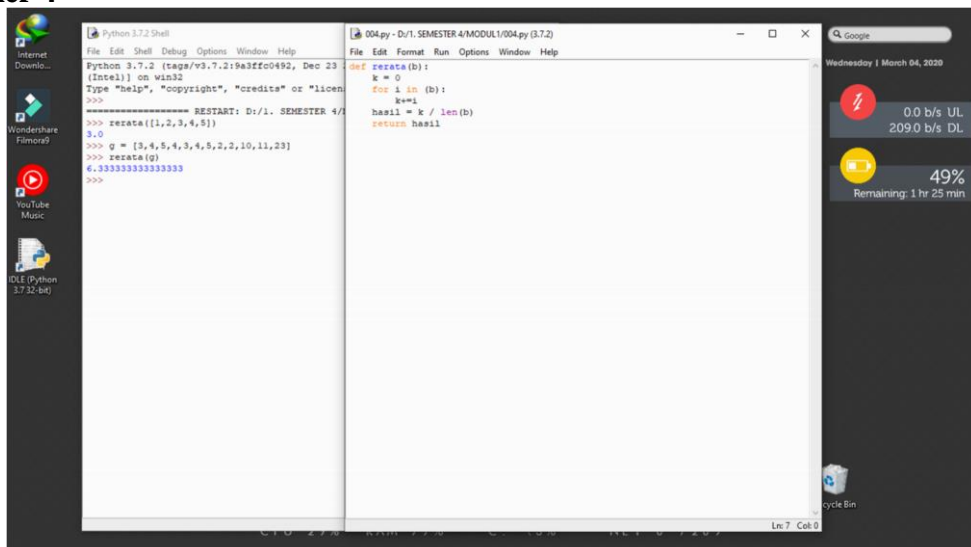
The screenshot shows a Python 3.7.2 IDE with two windows. The left window is the Python Shell, and the right window is the editor for '003b.py'. The shell shows the execution of the program, which counts the number of consonants in the string 'Surakarta'.

```
Python 3.7.2 Shell
Python 3.7.2 (tags/v3.7.2:19a3ff0492, Dec 23 2018, 22:20:52) [Intel] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/003b.py
>>> jumlahHurufKonsonan('Surakarta')
(9, 5)
>>>
```

```
003b.py - D:/1. SEMESTER 4/MODUL1/003b.py (3.7.2)
File Edit Format Run Options Window Help
def jumlahHurufKonsonan(x):
    konsonan = "BCDFGHJKLMNPQRSTVWXYZbdfghjklmnpqrstvwxyz"
    a = len(x)
    b = ""
    for k in x:
        if k in konsonan:
            b += k
    c = len(b)
    return (a,c)
```

CPU 67% RAM 82% C: \3% NET 51 k/1 M Ln: 10 Col: 0

4. Nomer 4



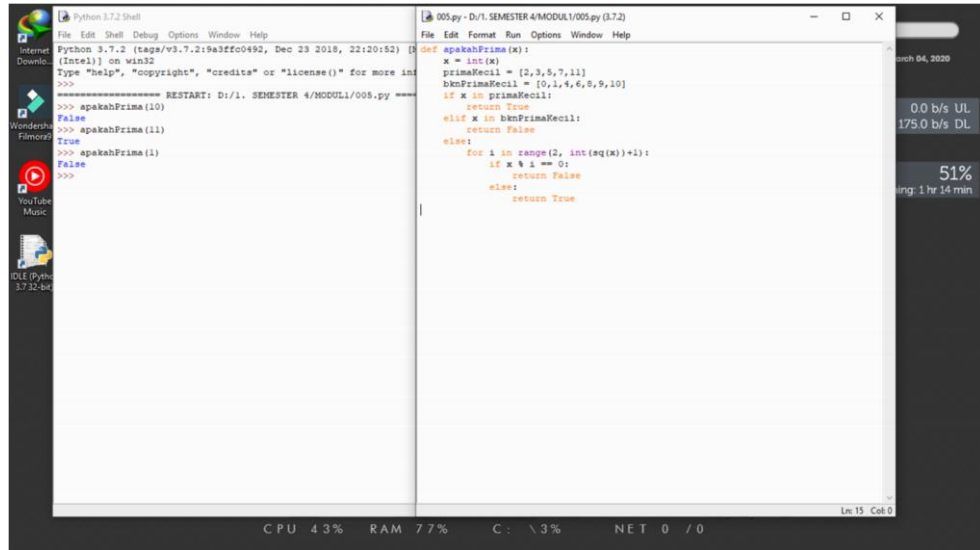
The screenshot shows a Python 3.7.2 IDE with two windows. The left window is the Python Shell, and the right window is the editor for '004.py'. The shell shows the execution of the program, which calculates the sum of a list of numbers.

```
Python 3.7.2 Shell
Python 3.7.2 (tags/v3.7.2:19a3ff0492, Dec 23 2018, 22:20:52) [Intel] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/004.py
>>> rerata([1,2,3,4,5])
3.0
>>> g = [3,4,5,4,3,4,5,2,2,10,11,23]
>>> rerata(g)
6.333333333333333
>>>
```

```
004.py - D:/1. SEMESTER 4/MODUL1/004.py (3.7.2)
File Edit Format Run Options Window Help
def rerata(b):
    k = 0
    for i in b:
        k += i
    hasil = k / len(b)
    return hasil
```

CPU 27% RAM 77% C: \3% NET 0 k/120 k Ln: 7 Col: 0

5. Nomer 5

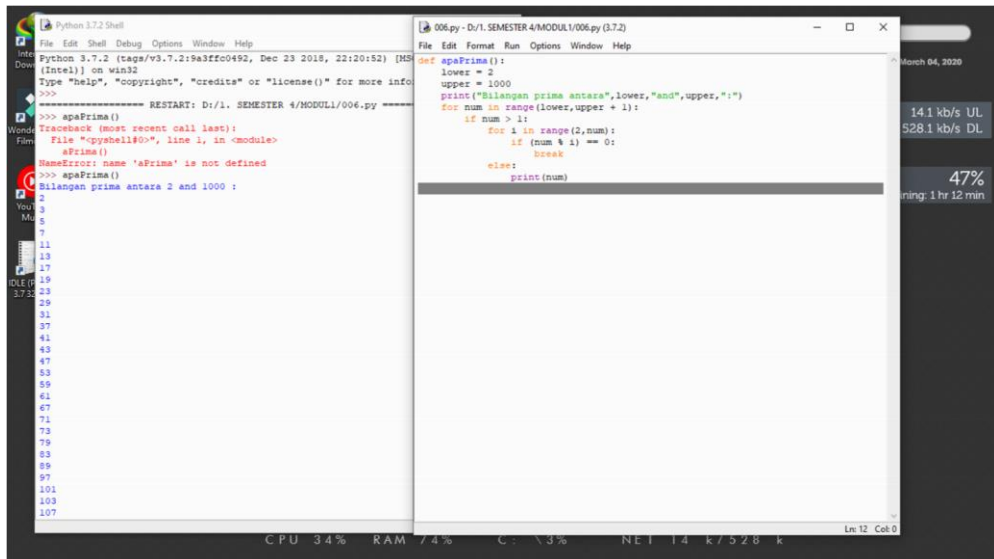


```
Python 3.7.2 Shell
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MS
[Intel]] on win32
Type "help", "copyright", "credits" or "license()" for more in
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/005.py =====
>>> apakahPrima(10)
False
>>> apakahPrima(11)
True
>>> apakahPrima(1)
False
>>>
```

```
005.py - D:/1. SEMESTER 4/MODUL1/005.py (3.7.2)
File Edit Format Run Options Window Help
def apakahPrima(x):
    x = int(x)
    primaRecall = [2,3,5,7,11]
    bknPrimaRecall = [0,1,4,6,8,9,10]
    if x in primaRecall:
        return True
    elif x in bknPrimaRecall:
        return False
    else:
        for i in range(2, int(sq(x))+1):
            if x % i == 0:
                return False
            else:
                return True
```

CPU 43% RAM 77% C: \3% NET 0 /0 Ln:15 Col:0

6. Nomer 6

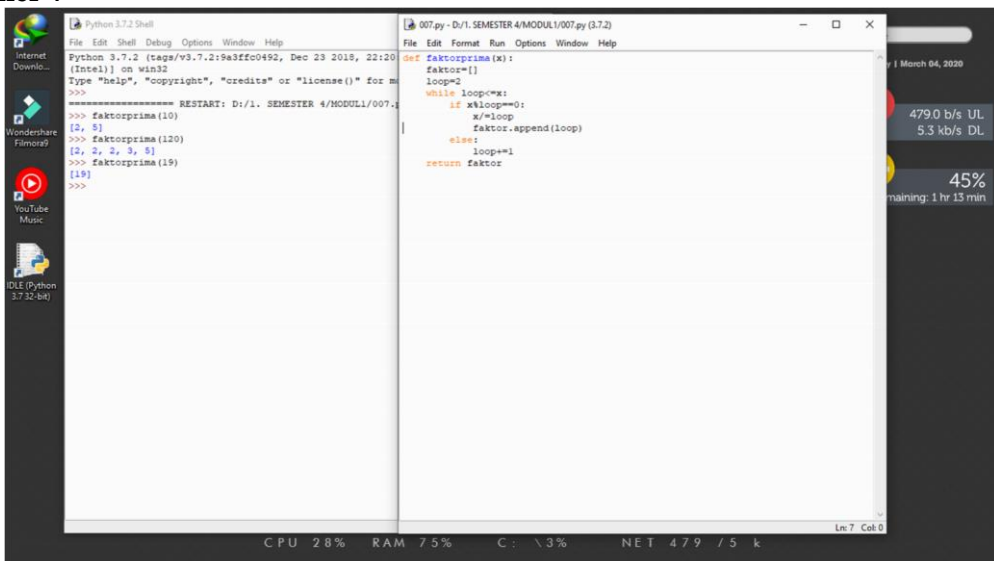


```
Python 3.7.2 Shell
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MS
[Intel]] on win32
Type "help", "copyright", "credits" or "license()" for more in
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/006.py =====
>>> apakahPrima()
Traceback (most recent call last):
  File "pyshell180.py", line 1, in <module>
    aPrima()
NameError: name 'aPrima' is not defined
>>> apakahPrima(1)
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
```

```
006.py - D:/1. SEMESTER 4/MODUL1/006.py (3.7.2)
File Edit Format Run Options Window Help
def apakahPrima(x):
    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)
```

CPU 34% RAM 74% C: \3% NET 14 k/528 k Ln:12 Col:0

7. Nomer 7

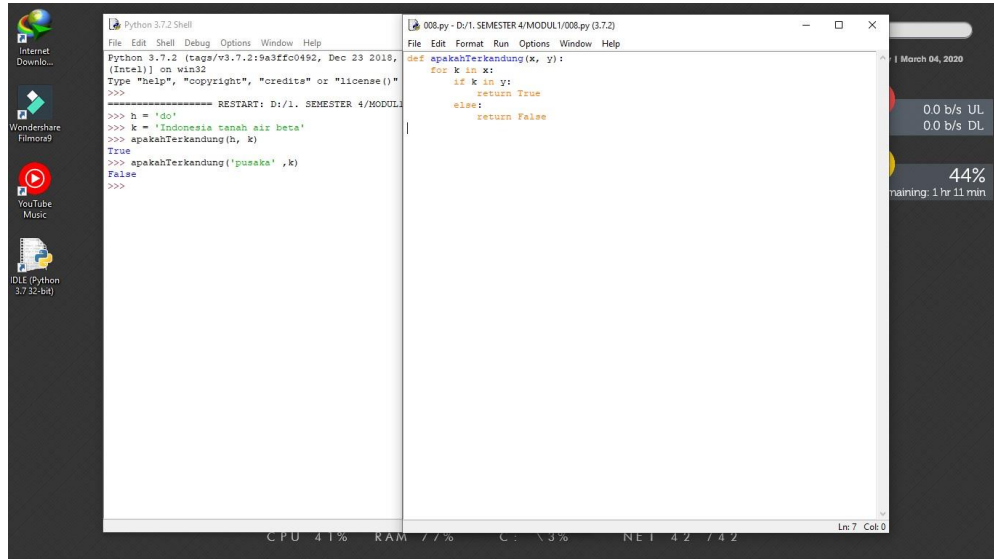


```
Python 3.7.2 Shell
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MS
[Intel]] on win32
Type "help", "copyright", "credits" or "license()" for more in
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/007.py =====
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 3, 5]
>>> faktorPrima(19)
[19]
>>>
```

```
007.py - D:/1. SEMESTER 4/MODUL1/007.py (3.7.2)
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
```

CPU 28% RAM 75% C: \3% NET 479 /5 k Ln:7 Col:0

8. Nomer 8



The screenshot shows a Python 3.7.2 Shell window on the left and a Python script editor on the right. The shell window displays the execution of a function `apakahTerKandung` with the following code and output:

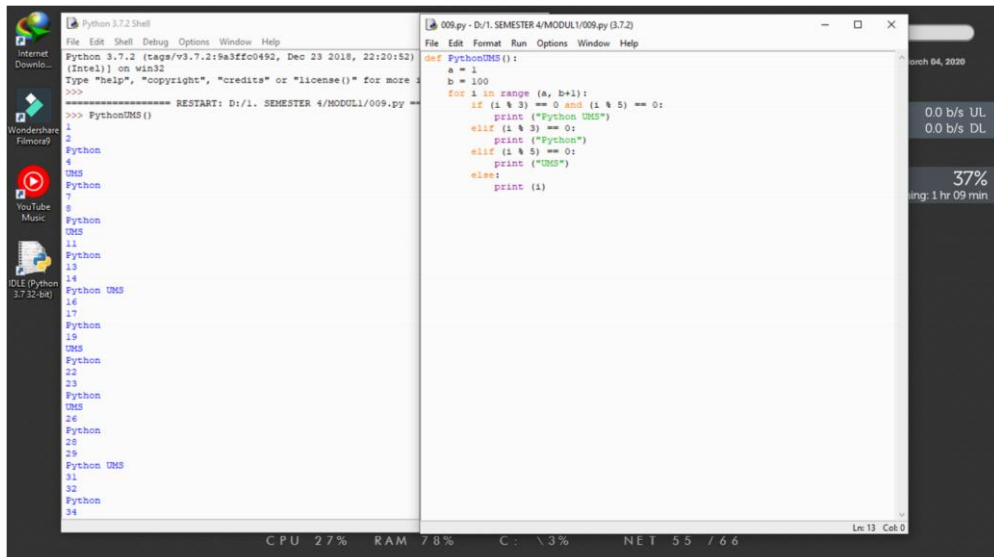
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, (Intel)) on win32
Type "help", "copyright", "credits" or "license()"
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/008.py
>>> h = 'do'
>>> k = 'Indonesia tanah air beta'
>>> apakahTerKandung(h, k)
True
>>> apakahTerKandung('pusaka', k)
False
>>>
```

The script editor on the right shows the definition of the `apakahTerKandung` function:

```
008.py - D:/1. SEMESTER 4/MODUL1/008.py (3.7.2)
File Edit Format Run Options Window Help
def apakahTerKandung(x, y):
    for k in x:
        if k in y:
            return True
        else:
            return False
```

The taskbar at the bottom shows CPU 41%, RAM 77%, C: \3%, NET 42 / 42, and Lin 7 Col 0.

9. Nomer 9



The screenshot shows a Python 3.7.2 Shell window on the left and a Python script editor on the right. The shell window displays the execution of a function `PythonUNS` with the following code and output:

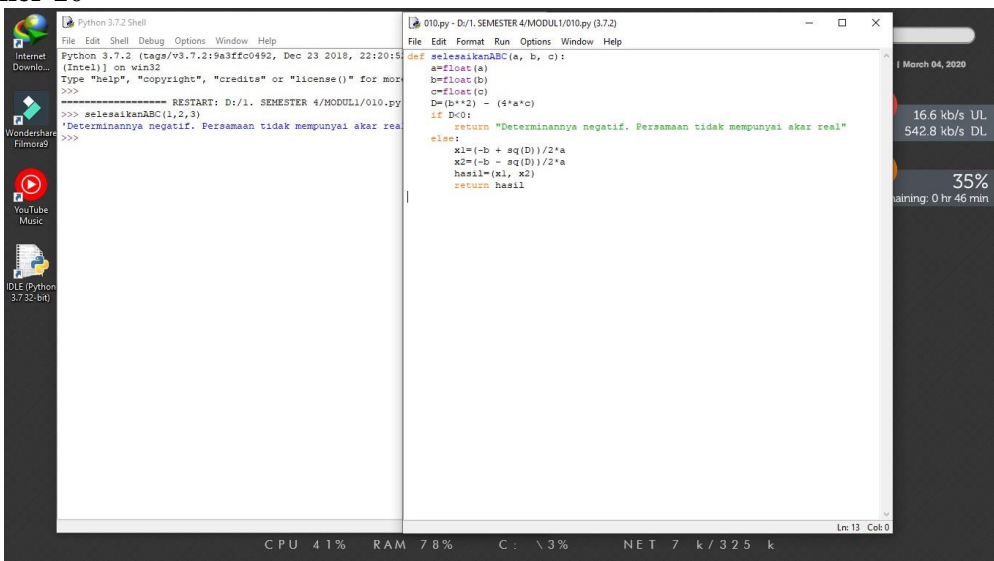
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) (Intel) on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/009.py
>>> PythonUNS()
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
```

The script editor on the right shows the definition of the `PythonUNS` function:

```
009.py - D:/1. SEMESTER 4/MODUL1/009.py (3.7.2)
File Edit Format Run Options Window Help
def PythonUNS():
    a = 1
    b = 100
    for i in range(a, b+1):
        if (i % 3) == 0 and (i % 5) == 0:
            print("Python UNS")
        elif (i % 3) == 0:
            print("Python")
        elif (i % 5) == 0:
            print("UNS")
        else:
            print(i)
```

The taskbar at the bottom shows CPU 27%, RAM 78%, C: \3%, NET 55 / 66, and Lin 13 Col 0.

10. Nomer 10



The screenshot shows a Python 3.7.2 Shell window on the left and a Python script editor on the right. The shell window displays the execution of a function `selesaikanABC` with the following code and output:

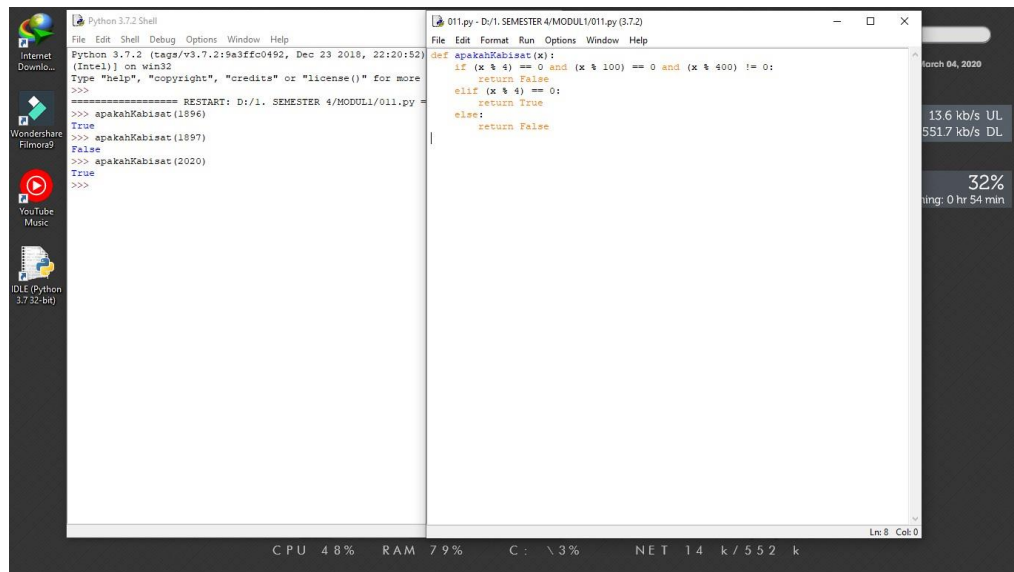
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) (Intel) on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/010.py
>>> selesaikanABC(1,2,3)
'Determinannya negatif. Persamaan tidak mempunyai akar real'
>>>
```

The script editor on the right shows the definition of the `selesaikanABC` function:

```
010.py - D:/1. SEMESTER 4/MODUL1/010.py (3.7.2)
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
```

The taskbar at the bottom shows CPU 41%, RAM 78%, C: \3%, NET 7 k / 325 k, and Lin 13 Col 0.

11. Nomer 11



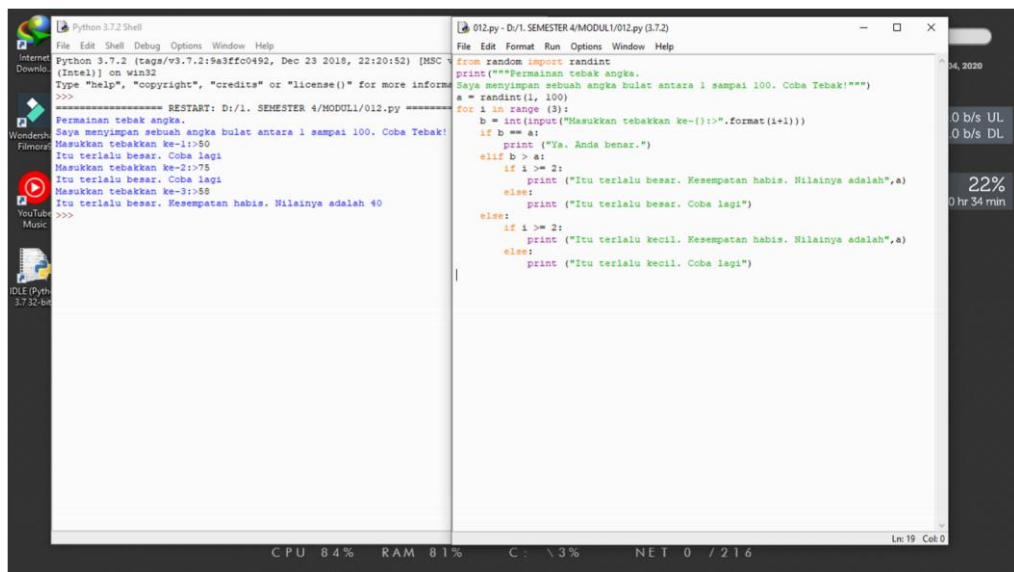
The screenshot shows a Windows desktop with a taskbar containing icons for Internet Download Manager, Wondershare Filmora9, YouTube Music, and IDLE (Python 3.7.32-bit). Two windows are open:

- Python 3.7.2 Shell:** Displays the Python prompt and the execution of a function `apakahKabisat` for the years 1896, 1897, and 2020. The output shows `True` for 1896 and 2020, and `False` for 1897.
- 011.py - D:/1. SEMESTER 4/MODUL1/011.py (3.7.2):** Contains the following Python code:

```
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
```

The system tray at the bottom shows CPU usage at 48%, RAM at 79%, and network activity at 14 k/552 k.

12. Nomer 12



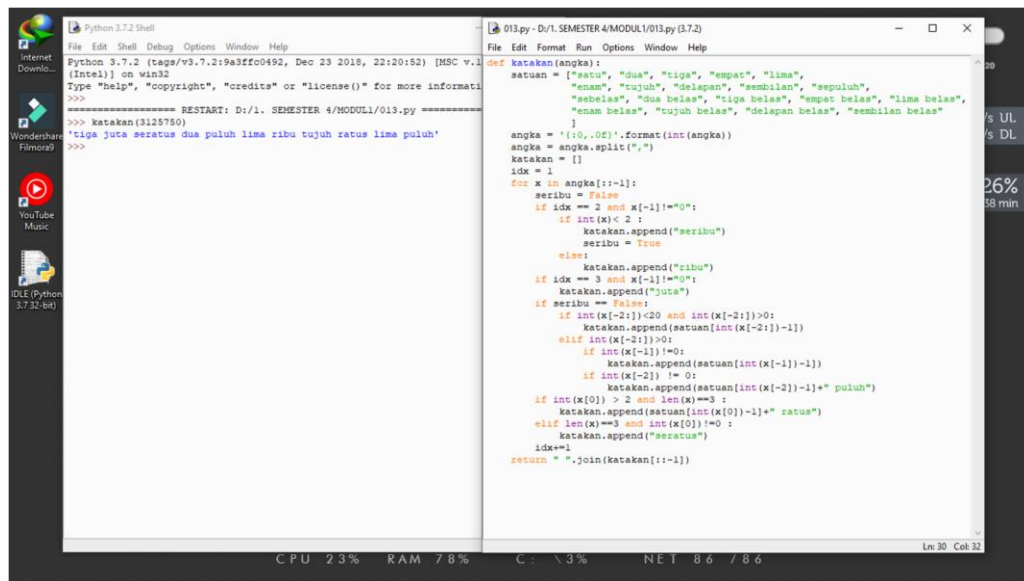
The screenshot shows the same Windows desktop environment. Two windows are open:

- Python 3.7.2 Shell:** Displays the execution of a script that implements a number guessing game. The output shows the game running for 3 attempts, with the user guessing 50, 75, and 55. The final output is "Itu terlalu besar. Kesempatan habis. Nilainya adalah 40".
- 012.py - D:/1. SEMESTER 4/MODUL1/012.py (3.7.2):** Contains the following Python code:

```
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 tebakan 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")
```

The system tray at the bottom shows CPU usage at 84%, RAM at 81%, and network activity at 0 / 216.

13. Nomer 13

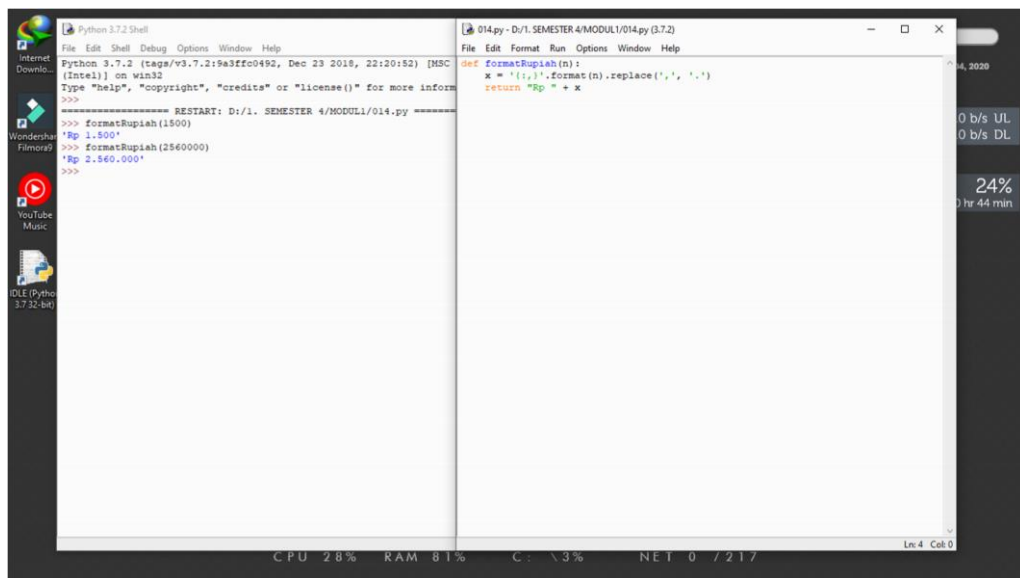


```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.113] on win32
Type "help", "copyright", "credits" or "license()" for more informati
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/013.py =====
>>> katakan(3125750)
'tiga juta seratus dua puluh lima ribu tujuh ratus lima puluh'
>>>
```

```
013.py - D:/1. SEMESTER 4/MODUL1/013.py (3.7.2)
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 len(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])
```

CPU 23% RAM 78% C: \3% NET 86 / 86 Lns 30 Cok 32

14. Nomer 14



```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.113] on win32
Type "help", "copyright", "credits" or "license()" for more informati
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/014.py =====
>>> formatRupiah(1500)
'Rp 1.500'
>>> formatRupiah(2560000)
'Rp 2.560.000'
>>>
```

```
014.py - D:/1. SEMESTER 4/MODUL1/014.py (3.7.2)
File Edit Format Run Options Window Help
def formatRupiah(n):
    x = '{:,}'.format(n).replace(',', '.')
    return "Rp " + x
```

CPU 28% RAM 81% C: \3% NET 0 / 217 Lns 4 Cok 0