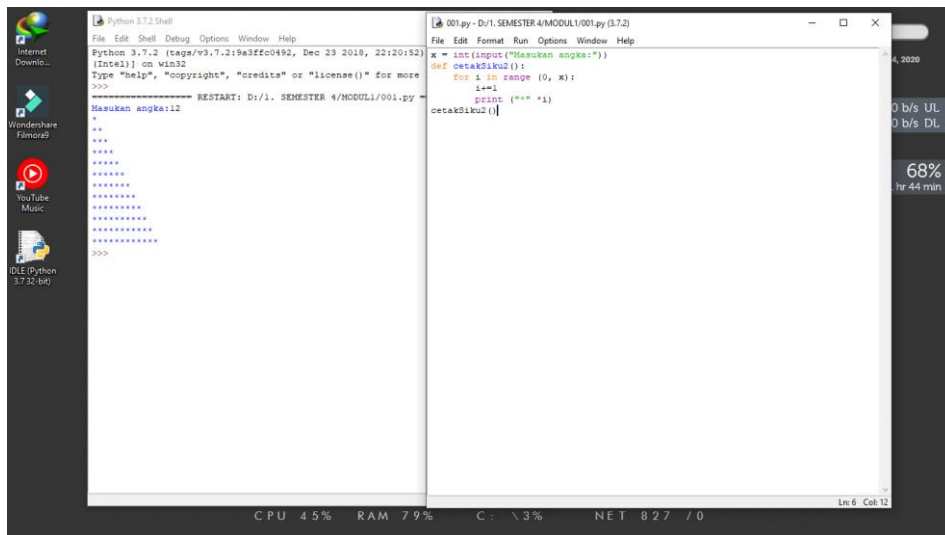


Nama : Bachtiar Nuhri Kurniawan

Nim : L200180031

Kelas : A

1. Nomer 1

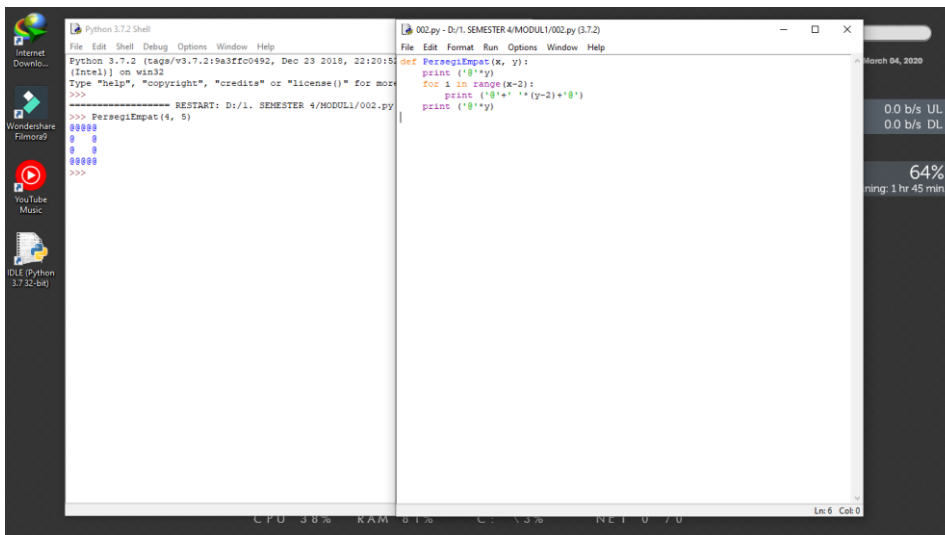


```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3fco492, Dec 23 2018, 22:20:52)
[Intel] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/001.py
Masukan angka:12
*
*
*
*
*
*
*
*
*
*
*
*
*
*
>>>
```

```
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 cetakKekuda(i):
    for j in range(0, x):
        i+=1
        print ("*" * i)
    cetakKekuda(i)
```

CPU 45% RAM 79% C: \ 3% NET 827 / 0 Lm 6 Ceb 12

2. Nomer 2



```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3fco492, Dec 23 2018, 22:20:52)
[Intel] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/002.py
>>> PersegiEmpat(4, 5)
00000
0 0
0 0
00000
>>>
```

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

CPU 38% RAM 61% C: \ 3% NET 0 / 0 Lm 6 Ceb 0

3. Nomer 3

- A



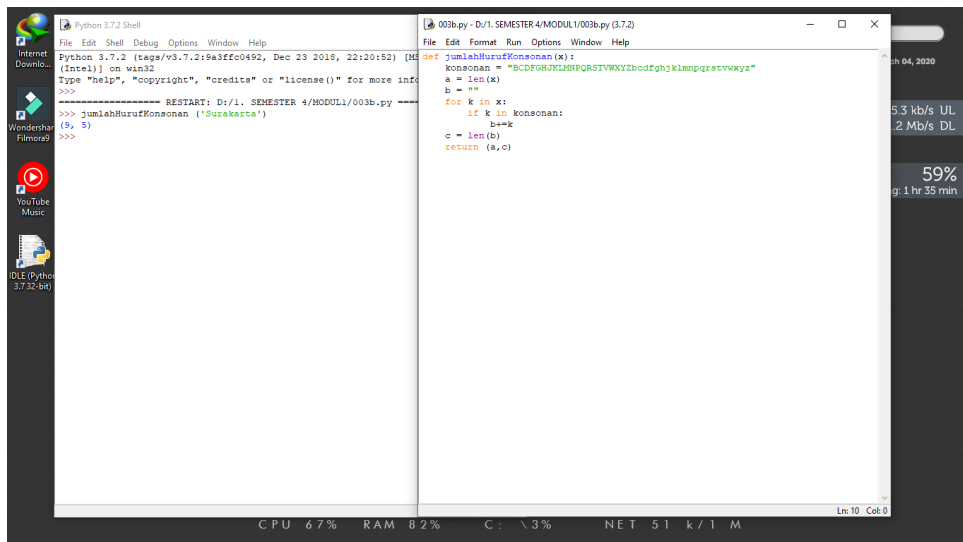
The screenshot shows a Python 3.7.2 Shell window on the left and a Python Editor window on the right. The Shell window displays the execution of a program that counts the number of vowels in the string 'Surakarta'. The Editor window shows the source code for the program.

```
Python 3.7.2 Shell
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 info
>>>
----- RESTART: D:/1. SEMESTER 4/MODUL1/003a.py -----
>>> jumlahHurufVokal ('Surakarta')
(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 = "AIUEOaieuo"
    a = len(x)
    b = ""
    for k in x:
        if k in vokal:
            b += k
    c = len(b)
    return (a,c)
```

CPU 6.3% RAM 8.0% C: \3% NET 2.9 k / 9.62 k Ln: 6 Col: 0

- B



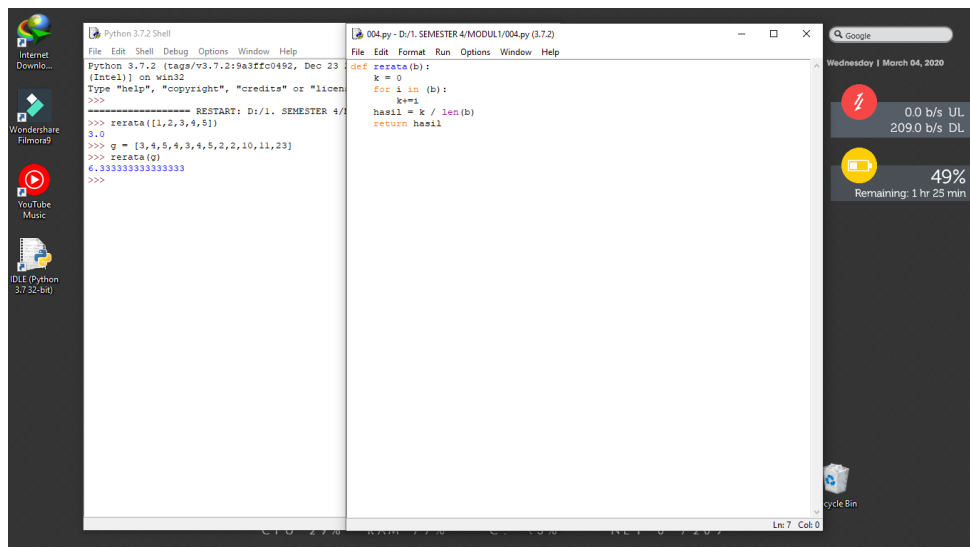
The screenshot shows a Python 3.7.2 Shell window on the left and a Python Editor window on the right. The Shell window displays the execution of a program that counts the number of consonants in the string 'Surakarta'. The Editor window shows the source code for the program.

```
Python 3.7.2 Shell
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 info
>>>
----- RESTART: D:/1. SEMESTER 4/MODUL1/003b.py -----
>>> jumlahHurufKonsongan ('Surakarta')
(9, 5)
>>>
```

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

CPU 6.7% RAM 8.2% C: \3% NET 5.1 k / 1 M Ln: 10 Col: 0

4. Nomer 4



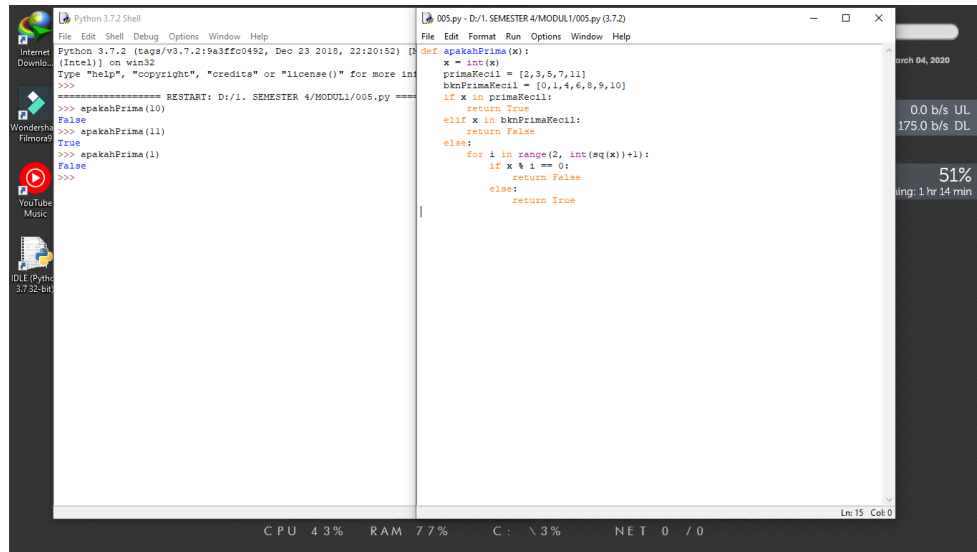
The screenshot shows a Python 3.7.2 Shell window on the left and a Python Editor window on the right. The Shell window displays the execution of a program that calculates the sum of a list. The Editor window shows the source code for the program.

```
Python 3.7.2 Shell
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 info
>>>
----- 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 2.7% RAM 1.7% C: \3% NET 0 k / 2.07 k Ln: 7 Col: 0

5. Nomer 5



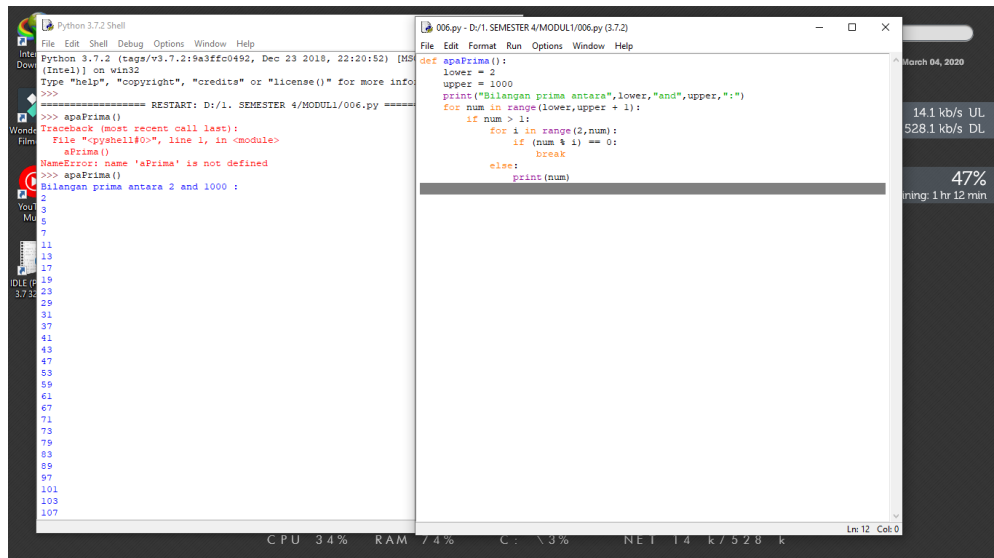
The screenshot shows a Python 3.7.2 Shell window on the left and a Python Editor window on the right. The Shell window displays the execution of a program that checks if a number is prime. The Editor window shows the source code for the program.

```
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



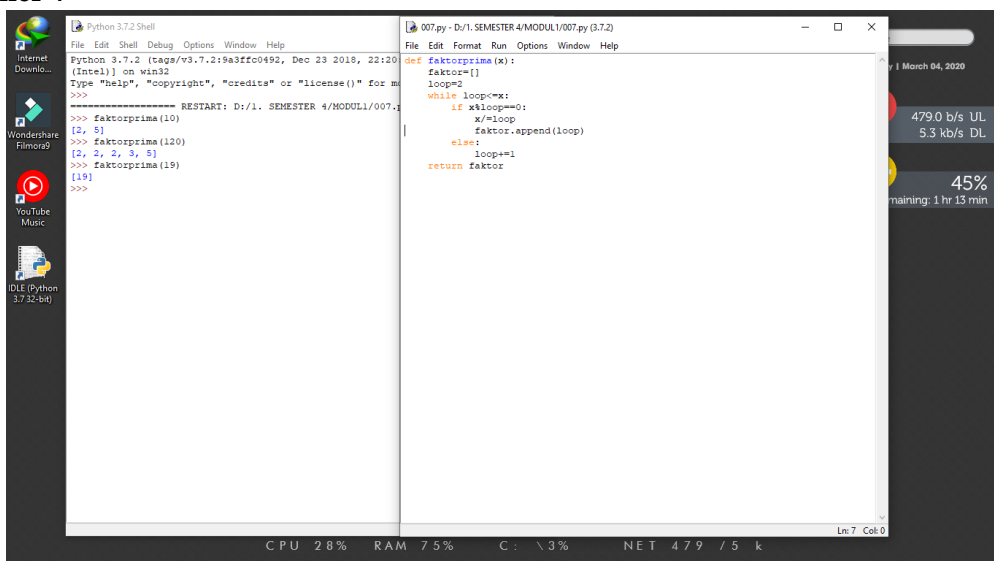
The screenshot shows a Python 3.7.2 Shell window on the left and a Python Editor window on the right. The Shell window displays the execution of a program that generates prime numbers. The Editor window shows the source code for the program.

```
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 =====
>>> apaPrima()
Traceback (most recent call last):
  File "pyshell#0", line 1, in <module>
    apaPrima()
NameError: name 'apaPrima' is not defined
>>> 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
```

```
006.py - D:/1. SEMESTER 4/MODUL1/006.py (3.7.2)
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)
```

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

7. Nomer 7



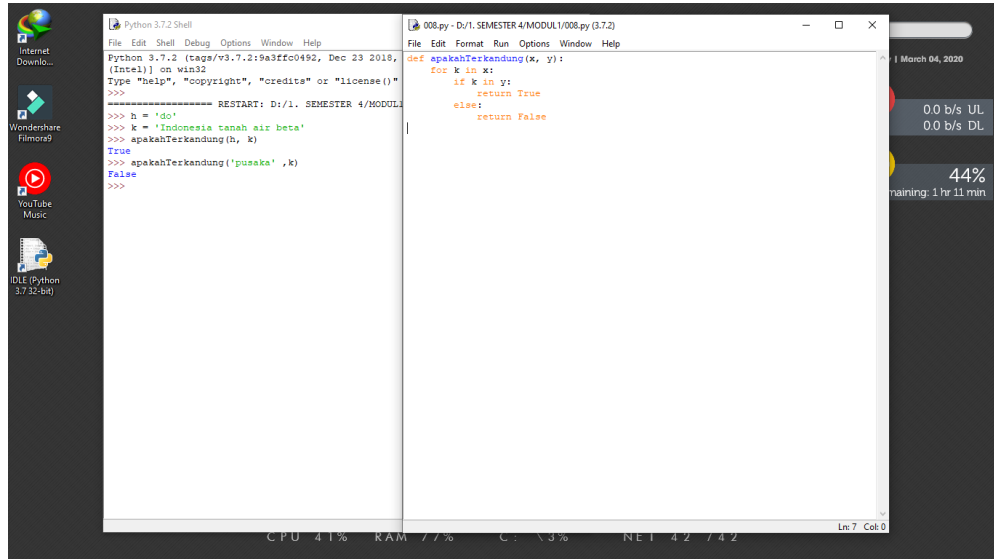
The screenshot shows a Python 3.7.2 Shell window on the left and a Python Editor window on the right. The Shell window displays the execution of a program that finds the factors of a number. The Editor window shows the source code for the program.

```
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 =====
>>> faktorisasi(10)
[2, 5]
>>> faktorisasi(120)
[2, 2, 2, 3, 5]
>>> faktorisasi(19)
[19]
>>>
```

```
007.py - D:/1. SEMESTER 4/MODUL1/007.py (3.7.2)
File Edit Format Run Options Window Help
def faktorisasi(x):
    faktor=[]
    loop=0
    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

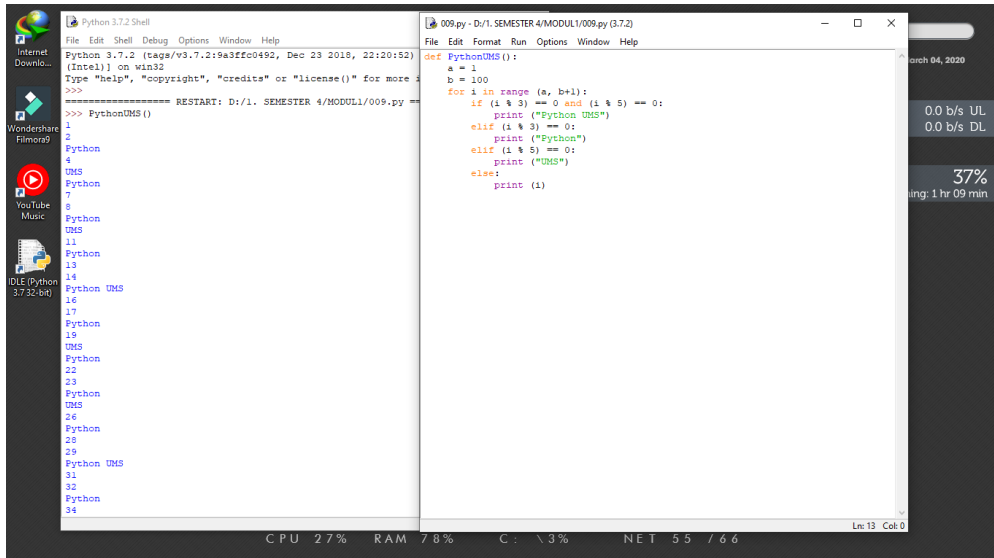


```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ff0492, Dec 23 2018, (Intel)) on win32
Type "help", "copyright", "credits" or "license()"
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/008.py
>>> h = 'do'
>>> k = 'Indonesia tanah air beta'
>>> apakahTerKandung(h, k)
True
>>> apakahTerKandung('pusaka', k)
False
>>>
```

```
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
```

CPU 41% RAM 77% C: \3% NET 42 / 42 Ln: 7 Col: 0

9. Nomer 9

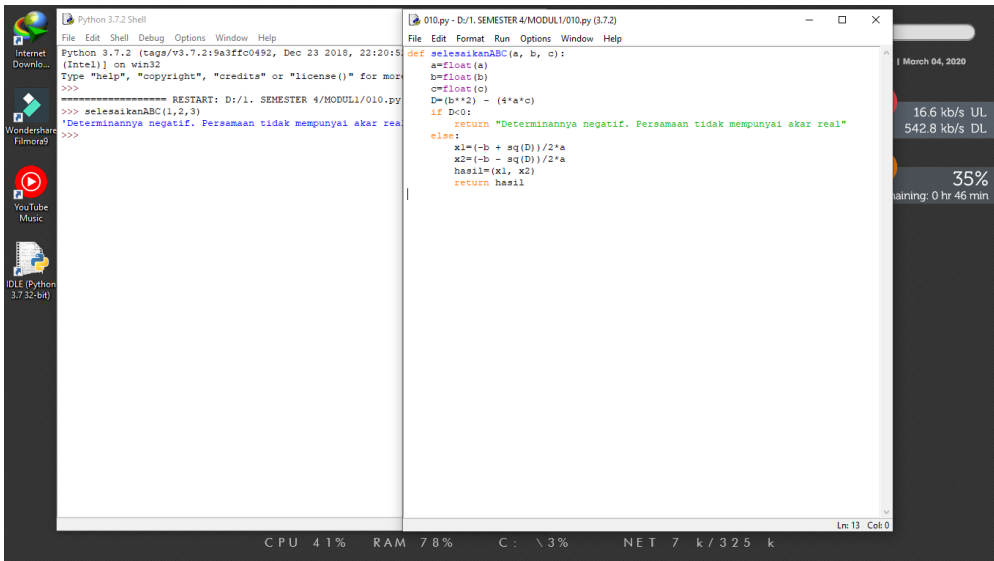


```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ff0492, Dec 23 2018, 22:20:52) (Intel) on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/009.py
>>> PythonUMS()
1
2
3 Python
4
5 UMS
6 Python
7
8 UMS
9
10 Python
11
12 UMS
13
14 Python
15
16 UMS
17
18 Python
19
20 UMS
21
22 Python
23
24 UMS
25
26 Python
27
28 UMS
29
30 Python
31
32 UMS
33
34
```

```
009.py - D:/1. SEMESTER 4/MODUL1/009.py (3.7.2)
File Edit Format Run Options Window Help
def PythonUMS():
    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)
```

CPU 27% RAM 78% C: \3% NET 55 / 66 Ln: 13 Col: 0

10. Nomer 10

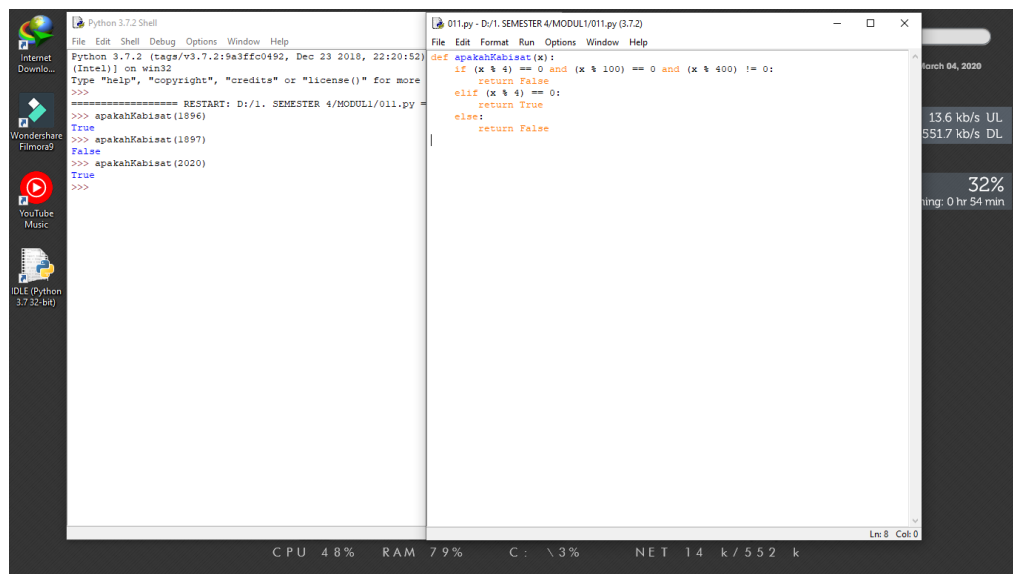


```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ff0492, Dec 23 2018, 22:20:52) (Intel) on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/010.py
>>> selesaikanABC(1,2,3)
'Determinannya negatif. Persamaan tidak mempunyai akar real'
>>>
```

```
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
```

CPU 41% RAM 78% C: \3% NET 7 k / 325 k Ln: 13 Col: 0

11. Nomer 11



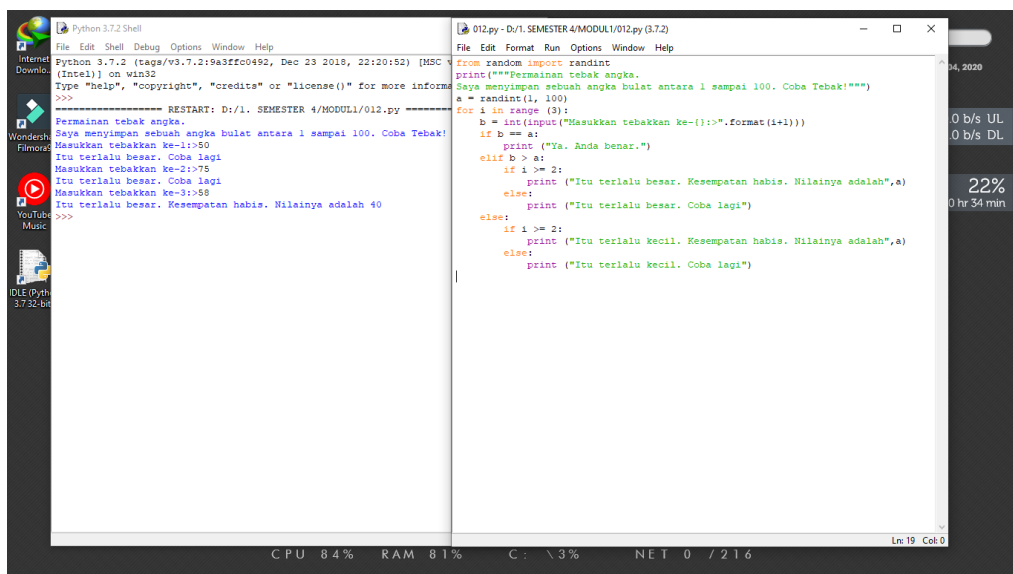
The screenshot shows a Python 3.7.2 IDE with two windows. The left window is the Python Shell, and the right window is the editor for 011.py. The shell shows the execution of the function `apakahKabisat` for the years 1896, 1897, and 2020. The editor shows the function definition.

```
Python 3.7.2 Shell
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/MODUL1/011.py =====
>>> apakahKabisat(1896)
True
>>> apakahKabisat(1897)
False
>>> apakahKabisat(2020)
True
>>>
```

```
011.py - D:/1. SEMESTER 4/MODUL1/011.py (3.7.2)
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
```

CPU 48% RAM 79% C: \3% NET 14 k / 552 k Ln: 8 Col: 0

12. Nomer 12



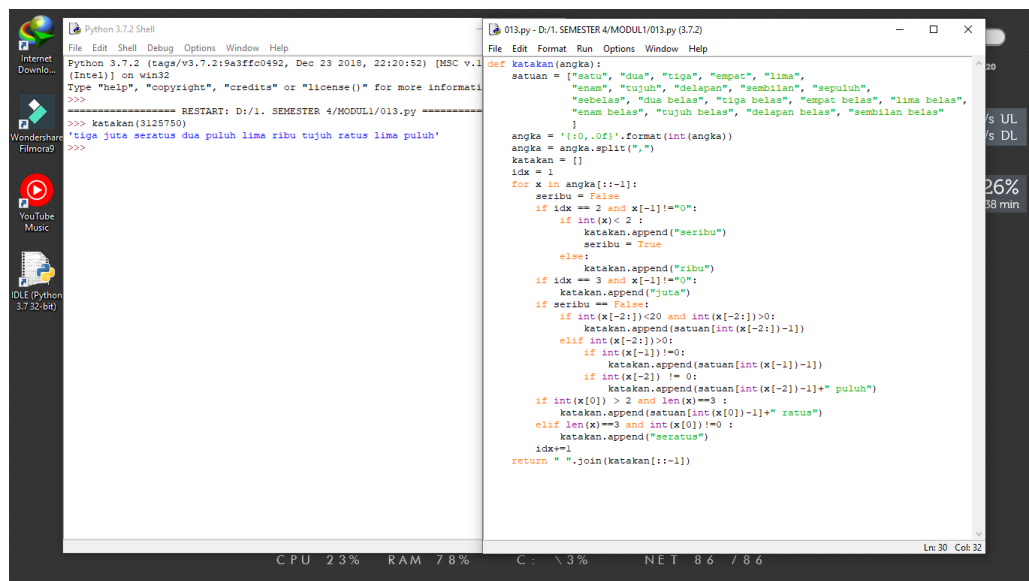
The screenshot shows a Python 3.7.2 IDE with two windows. The left window is the Python Shell, and the right window is the editor for 012.py. The shell shows the execution of a game where a user guesses a number between 1 and 100. The editor shows the game logic.

```
Python 3.7.2 Shell
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC
Type "help", "copyright", "credits" or "license()" for more inform
>>>
===== RESTART: D:/1. SEMESTER 4/MODUL1/012.py =====
Permainan tebak angka.
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:>75
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-3:>58
Itu terlalu besar. Kesempatan habis. Nilainya adalah 40
>>>
```

```
012.py - D:/1. SEMESTER 4/MODUL1/012.py (3.7.2)
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 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")
    elif b < a:
        if i >= 2:
            print("Itu terlalu kecil. Kesempatan habis. Nilainya adalah",a)
        else:
            print("Itu terlalu kecil. Coba lagi")
```

CPU 84% RAM 81% C: \3% NET 0 / 216 Ln: 19 Col: 0

13. Nomer 13



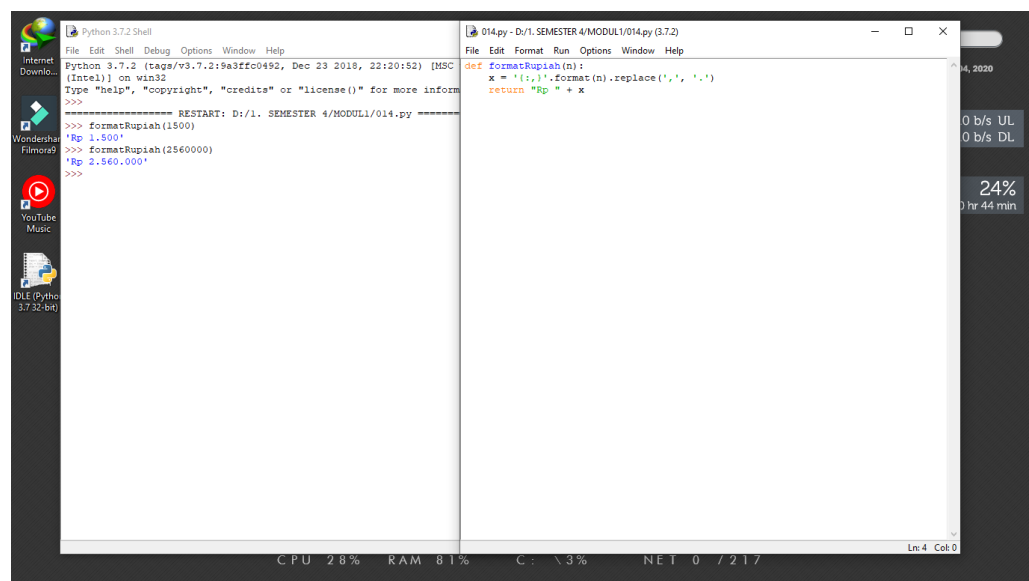
The screenshot shows a Python 3.7.2 Shell window on the left and a Python Editor window on the right. The Shell window displays the execution of a program that converts the number 3125750 into Indonesian text. The Editor window shows the source code for the program.

```
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 64-bit] on win32
Type "help", "copyright", "credits" or "license()" for more information
>>>
===== 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 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. Nomer 14



The screenshot shows a Python 3.7.2 Shell window on the left and a Python Editor window on the right. The Shell window displays the execution of a program that formats the number 2560000 as a currency string. The Editor window shows the source code for the program.

```
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 64-bit] on win32
Type "help", "copyright", "credits" or "license()" for more information
>>>
===== 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
```