

Nama : Veny Fitriana Isnaini

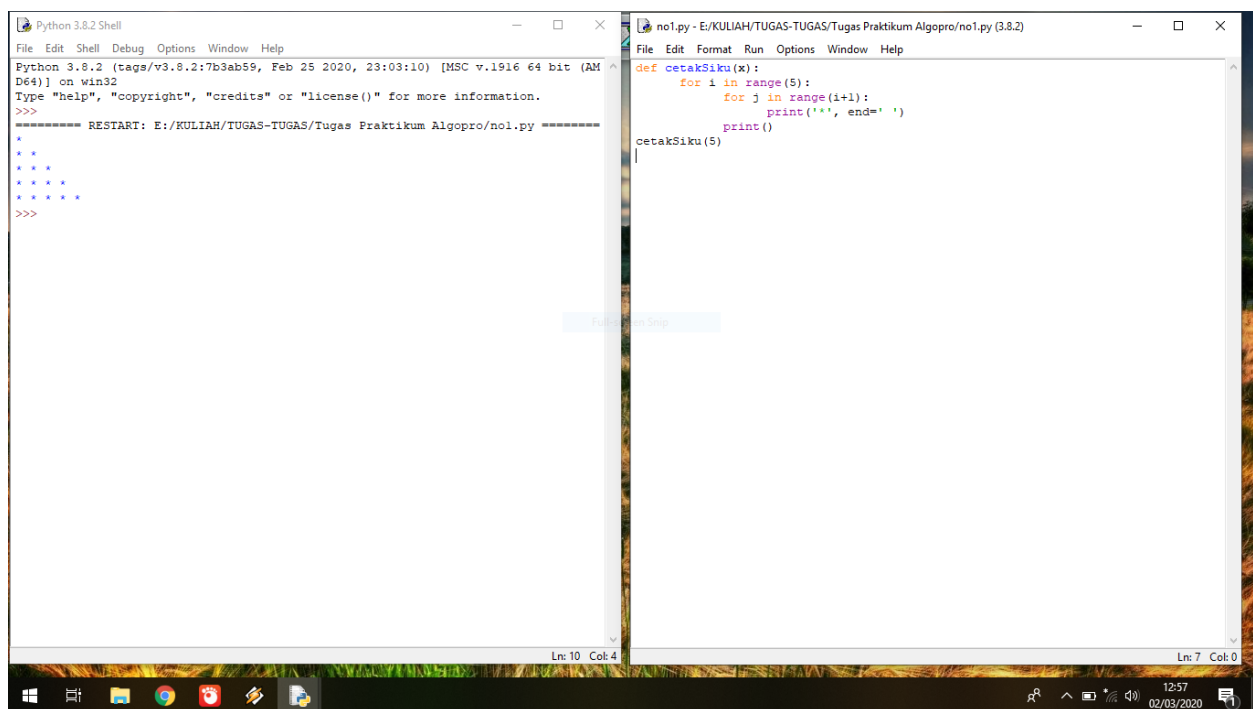
NIM : L200180045

Kelas : B

Modul 1

Tinjauan Ulang Python

1. No 1

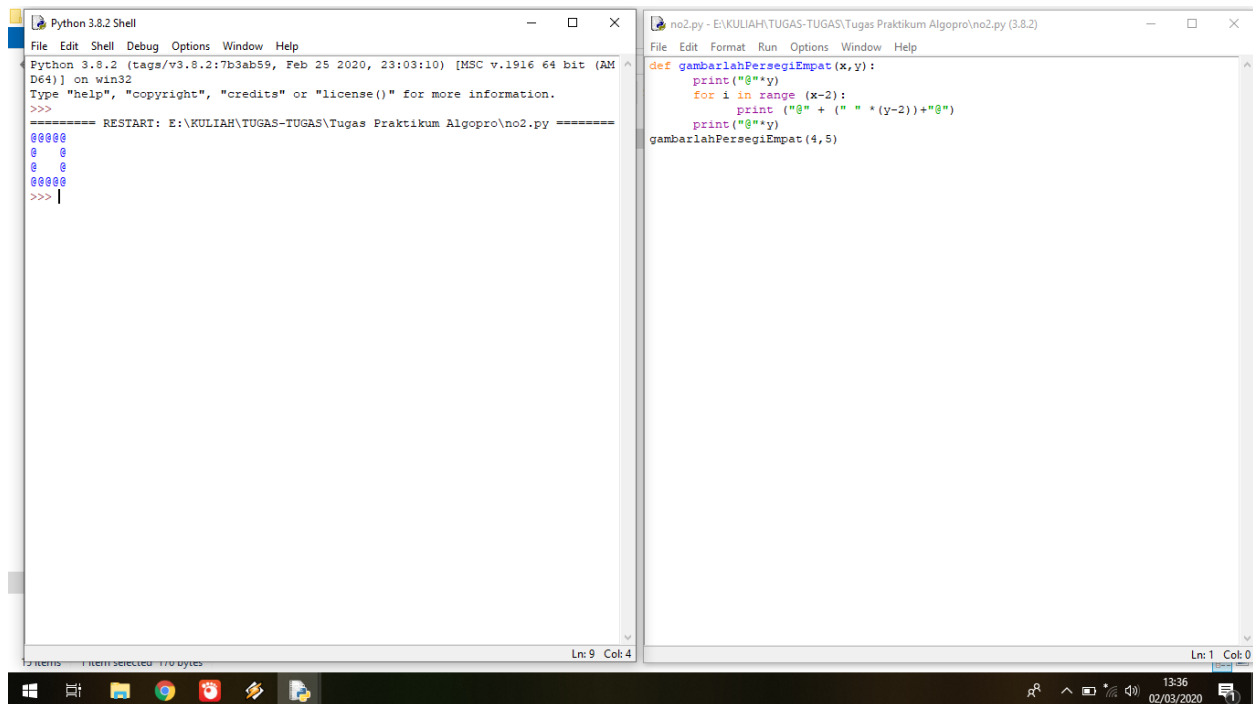


The image shows two side-by-side windows from a Windows desktop. The left window is titled 'Python 3.8.2 Shell' and displays the Python interpreter's help text and a restart message. The right window is titled 'no1.py - E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algopro/no1.py (3.8.2)' and contains a Python script. The script defines a function 'cetakSiku(x)' that prints a square of asterisks using nested loops. Below the function definition, the function is called with the argument '5'. The Windows taskbar at the bottom shows the date as 02/03/2020 and the time as 12:57.

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algopro/no1.py =====
*
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*
*
>>>

no1.py - E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algopro/no1.py (3.8.2)
File Edit Format Run Options Window Help
def cetakSiku(x):
    for i in range(5):
        for j in range(i+1):
            print('*', end=' ')
        print()
cetakSiku(5)
|
```

2. No 2

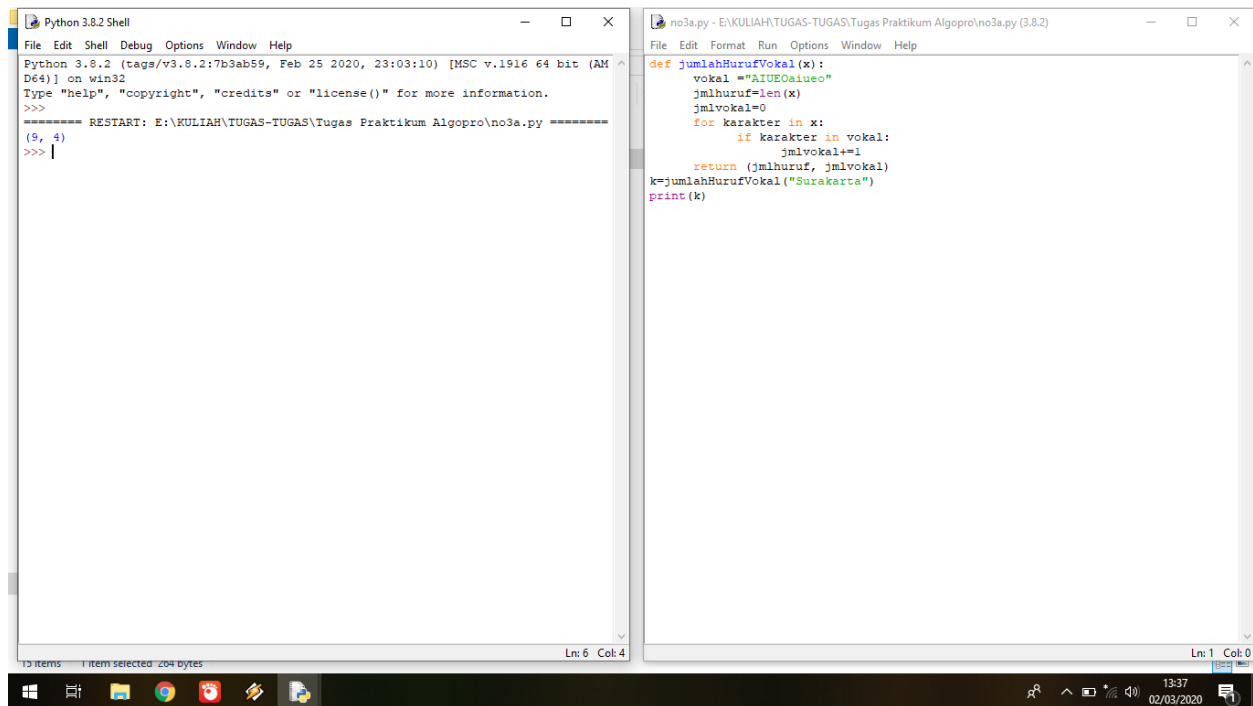


The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.2 Shell' with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). It displays the standard Python startup text and a prompt. The right window is a text editor titled 'no2.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no2.py (3.8.2)' with a menu bar (File, Edit, Format, Run, Options, Window, Help). It contains the following Python code:

```
def gambarlahPersegiEmpat(x,y):  
    print("@@"*y)  
    for i in range (x-2):  
        print ("@" + (" " *(y-2))+"@")  
        print("@@"*y)  
gambarlahPersegiEmpat(4,5)
```

The task is to write a function `gambarlahPersegiEmpat(x,y)` that prints a square of asterisks. The function takes two arguments: `x` (width) and `y` (height). The output for `gambarlahPersegiEmpat(4,5)` is a 5x4 grid of asterisks.

3. No 3a

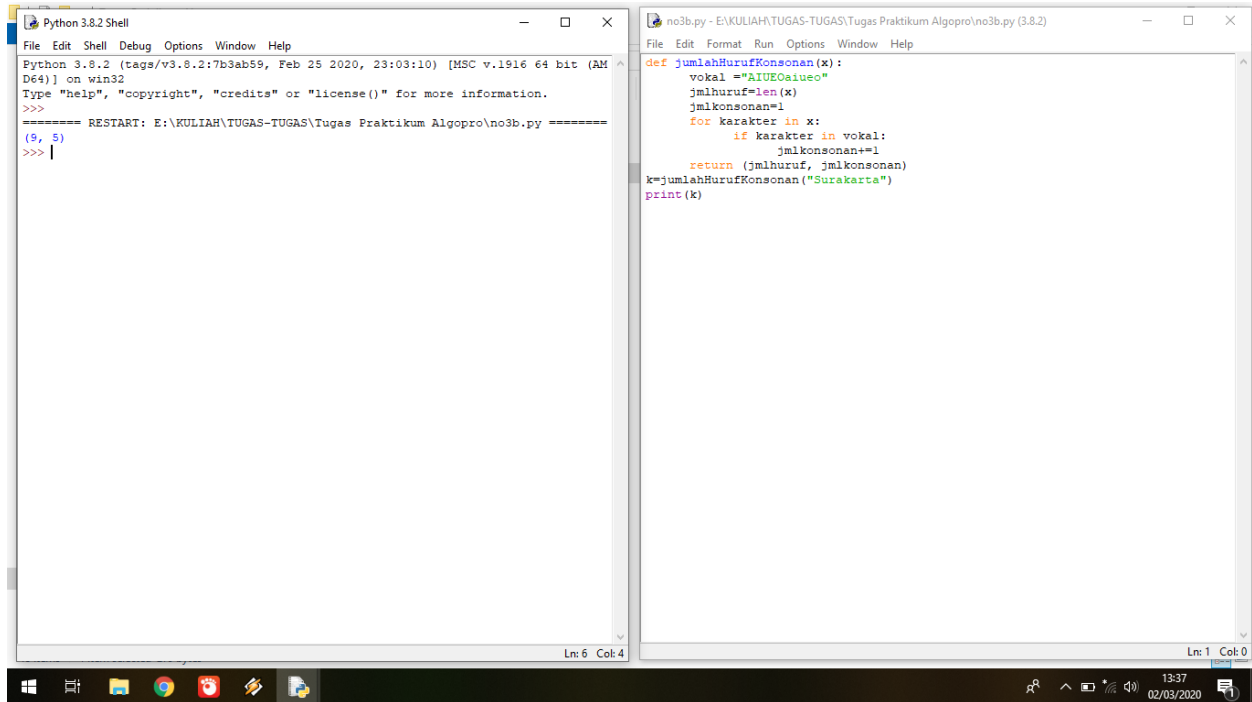


The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.2 Shell' with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). It displays the standard Python startup text and a prompt. The right window is a text editor titled 'no3a.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no3a.py (3.8.2)' with a menu bar (File, Edit, Format, Run, Options, Window, Help). It contains the following Python code:

```
def jumlahHurufVokal(x):  
    vokal = "AIUEOaiueo"  
    jmlhuruf=len(x)  
    jmlvokal=0  
    for karakter in x:  
        if karakter in vokal:  
            jmlvokal+=1  
    return (jmlhuruf, jmlvokal)  
k=jumlahHurufVokal("Surakarta")  
print(k)
```

The task is to write a function `jumlahHurufVokal(x)` that returns a tuple containing the total number of characters and the number of vowels in the string `x`. The output for `jumlahHurufVokal("Surakarta")` is `(9, 4)`.

No 3b



The screenshot shows two windows from a Windows desktop. The left window is a Python 3.8.2 Shell with the following text:

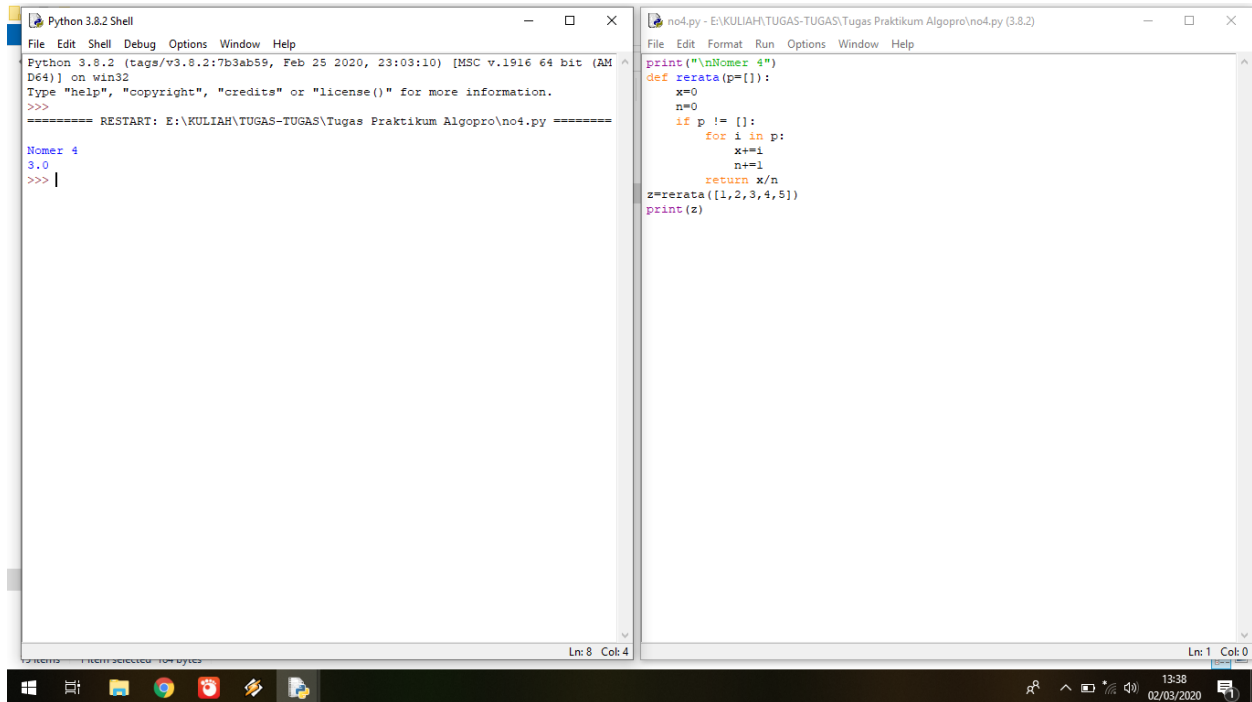
```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no3b.py =====
(9, 5)
>>> |
```

The right window is a Python script editor for a file named `no3b.py`. It contains the following code:

```
def jumlahHurufKonsonan(x):
    vokal = "AIUEOaiueo"
    jmlhuruf=len(x)
    jmlkonsonan=1
    for karakter in x:
        if karakter in vokal:
            jmlkonsonan+=1
    return (jmlhuruf, jmlkonsonan)
k=jumlahHurufKonsonan("Surakarta")
print(k)
```

The taskbar at the bottom shows the date and time as 02/03/2020 13:37.

4. No 4



The screenshot shows two windows from a Windows desktop. The left window is a Python 3.8.2 Shell with the following text:

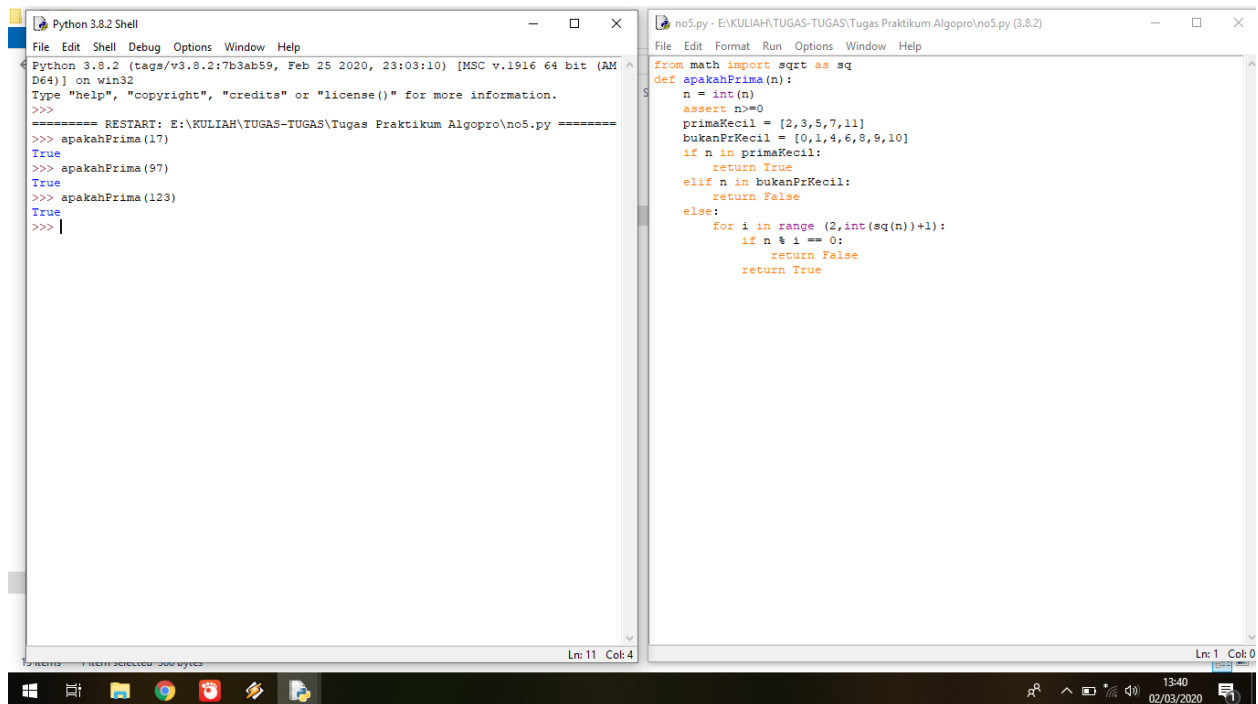
```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no4.py =====
Nomer 4
3.0
>>> |
```

The right window is a Python script editor for a file named `no4.py`. It contains the following code:

```
print("\nNomer 4")
def rerata(p=[]):
    x=0
    n=0
    if p != []:
        for i in p:
            x+=i
            n+=1
        return x/n
z=rerata([1,2,3,4,5])
print(z)
```

The taskbar at the bottom shows the date and time as 02/03/2020 13:38.

5. No 5



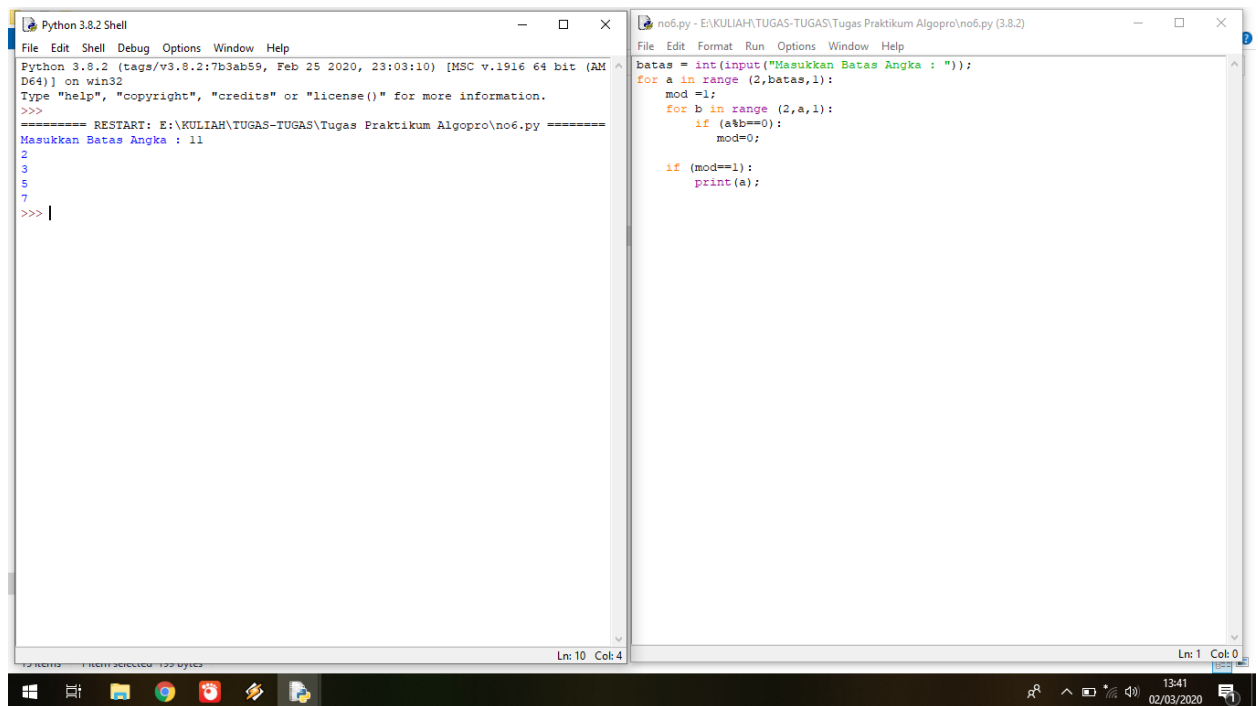
The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.2 Shell' with the following content:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no5.py =====
>>> apakahPrima(17)
True
>>> apakahPrima(97)
True
>>> apakahPrima(123)
True
>>> |
```

The right window is a text editor showing the code for 'no5.py':

```
no5.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no5.py (3.8.2)
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
```

6. No 6



The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.2 Shell' with the following content:

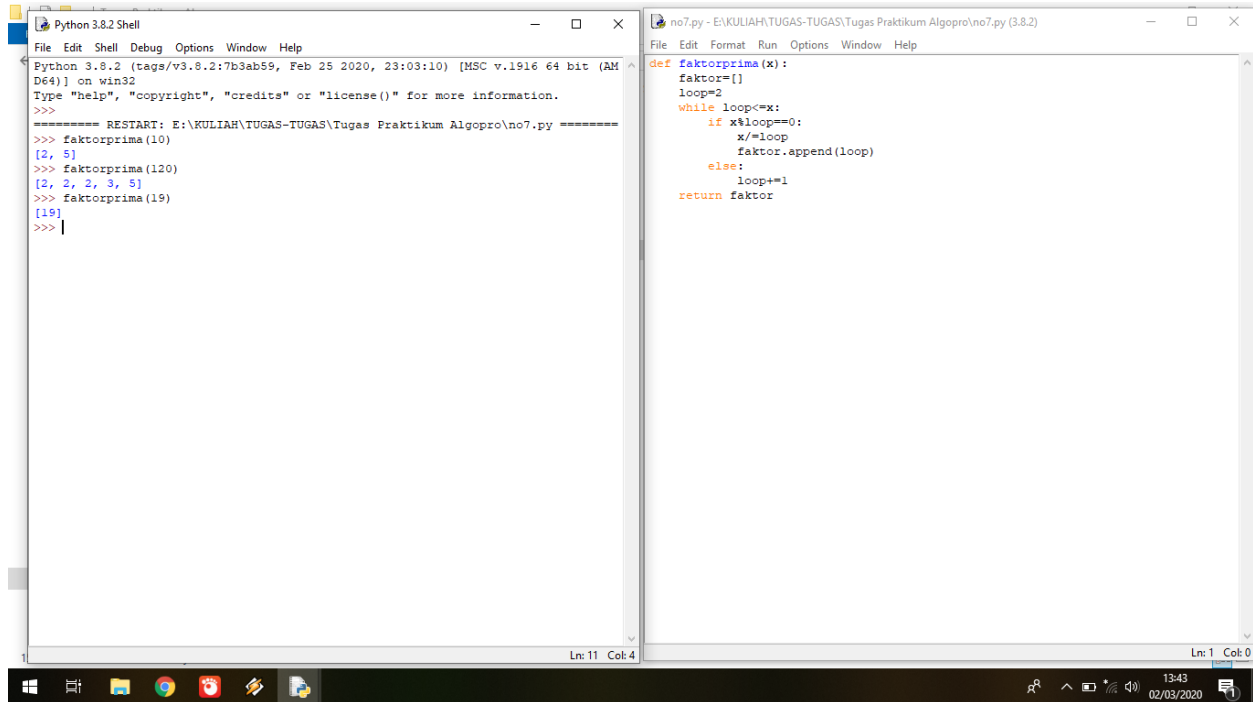
```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no6.py =====
Masukkan Batas Angka : 11
2
3
5
7
>>> |
```

The right window is a text editor showing the code for 'no6.py':

```
no6.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no6.py (3.8.2)
File Edit Format Run Options Window Help
batas = int(input("Masukkan Batas Angka : "));
for a in range(2,batas,1):
    mod =1;
    for b in range(2,a,1):
        if (a%b==0):
            mod=0;

    if (mod==1):
        print(a);
```

7. No 7



The screenshot shows two windows from a Windows desktop. The left window is titled 'Python 3.8.2 Shell' and displays the following text:

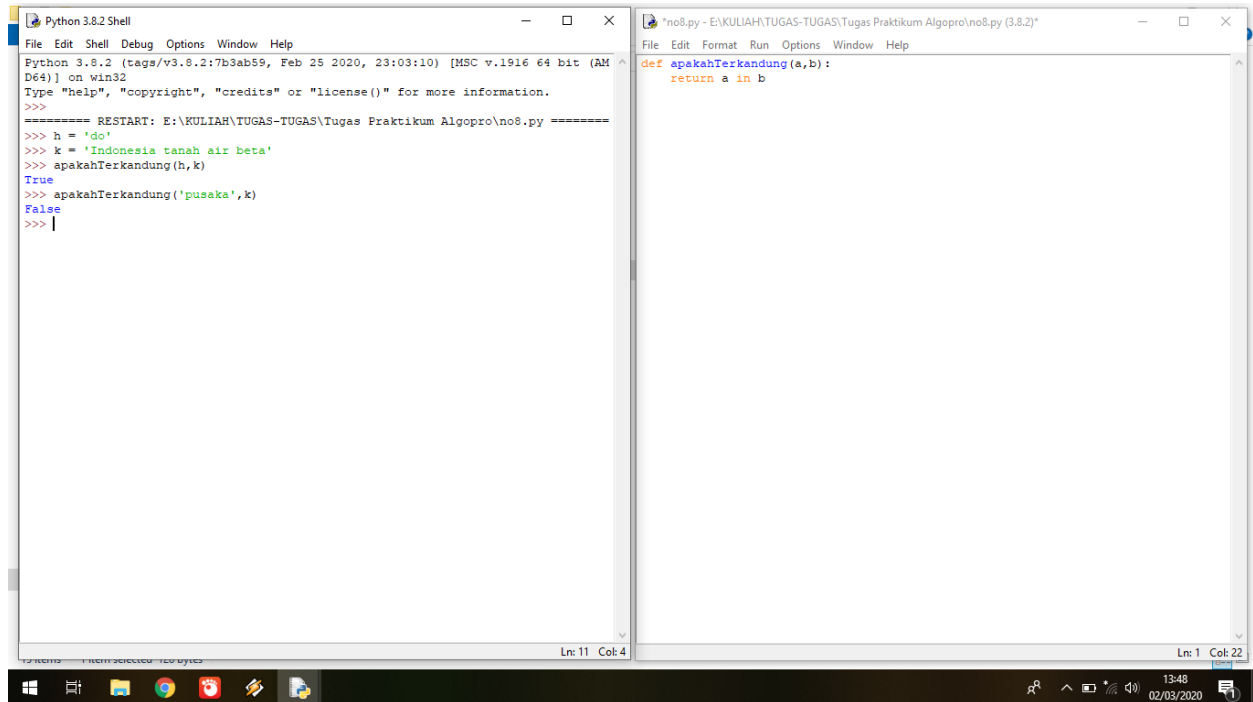
```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no7.py =====
>>> faktorprima(10)
[2, 5]
>>> faktorprima(120)
[2, 2, 2, 3, 5]
>>> faktorprima(19)
[19]
>>> |
```

The right window is titled 'no7.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no7.py (3.8.2)' and contains the following Python code:

```
def faktorprima(x):
    faktor=[]
    loop=2
    while loop<=x:
        if x%loop==0:
            x/=loop
            faktor.append(loop)
        else:
            loop+=1
    return faktor
```

The taskbar at the bottom shows the Windows Start button, task view, and several application icons. The system tray on the right shows the date and time as 13:43 on 02/03/2020.

8. No 8



The screenshot shows two windows from a Windows desktop. The left window is titled 'Python 3.8.2 Shell' and displays the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no8.py =====
>>> h = 'do'
>>> k = 'Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>> |
```

The right window is titled 'no8.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algopro\no8.py (3.8.2)' and contains the following Python code:

```
def apakahTerkandung(a,b):
    return a in b
```

The taskbar at the bottom shows the Windows Start button, task view, and several application icons. The system tray on the right shows the date and time as 13:48 on 02/03/2020.

9. No 9

The screenshot shows two windows. The left window is a Python 3.8.2 Shell with the following output:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algoritma\n09.py =====
1
2
3 Python
4
5 UMS
6 Python
7
8
9 Python
10 UMS
11
12 Python
13
14 Python UMS
15
16
17 Python
18
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29 Python UMS
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32 Python
33
34 UMS
```

The right window is a Python script editor showing the following code:

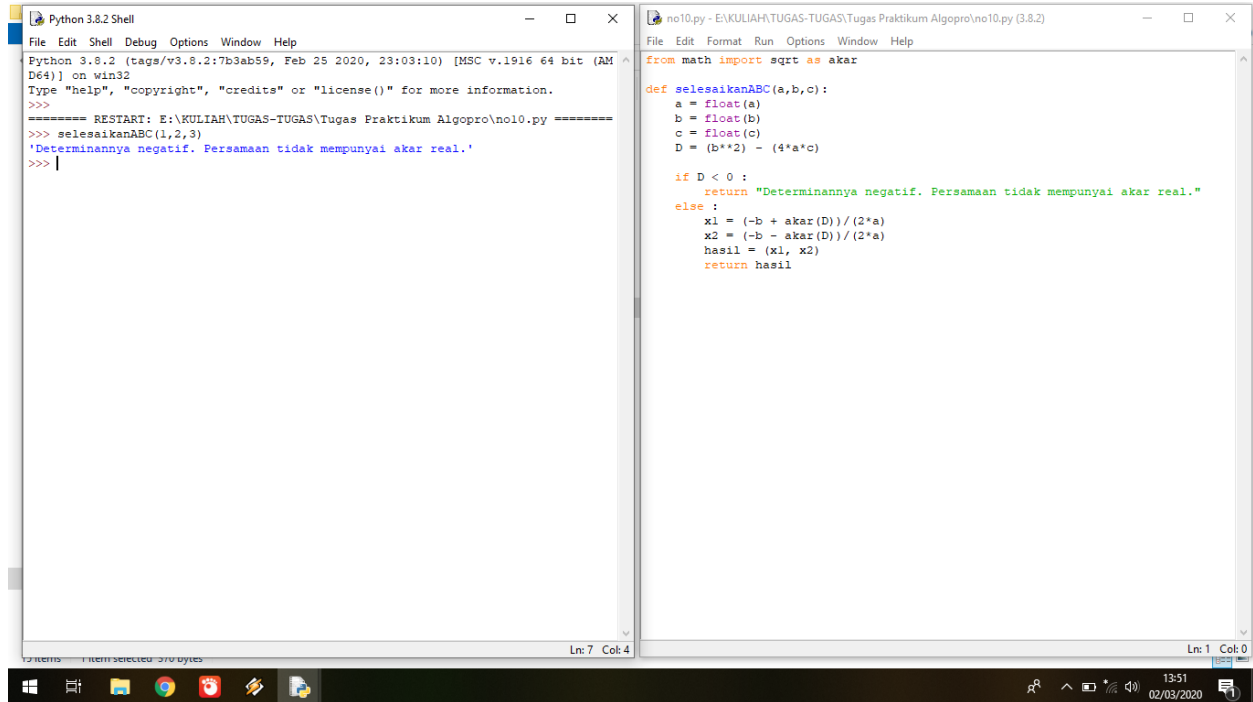
```
no9.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algoritma\n09.py (3.8.2)
File Edit Format Run Options Window Help

i = 1
while i <= 100:
    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)
    i = i+1
```

The screenshot shows two windows. The left window is a Python 3.8.2 Shell with the following output:

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algoritma\n09.py =====
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63 Python
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68 Python
69 UMS
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71 Python
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74 Python UMS
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10.No 10



The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.2 Shell' with the following content:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algoritma\nol0.py =====
>>> selesaikanABC(1,2,3)
'Determinannya negatif. Persamaan tidak mempunyai akar real.'
>>> |
```

The right window is a Python script editor titled 'no10.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algoritma\nol0.py (3.8.2)'. It contains the following code:

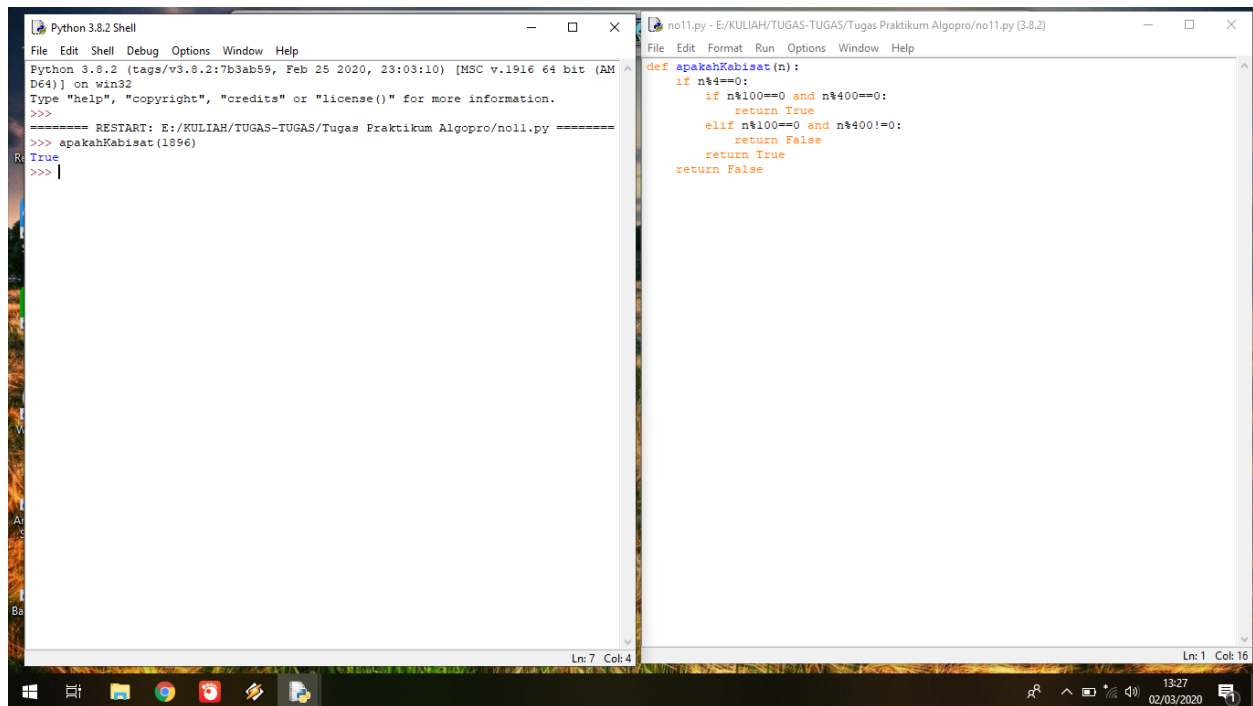
```
from math import sqrt as akar

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 + akar(D))/(2*a)
        x2 = (-b - akar(D))/(2*a)
        hasil = (x1, x2)
        return hasil
```

The taskbar at the bottom shows the date and time as 02/03/2020 13:51.

11.No 11



The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.2 Shell' with the following content:

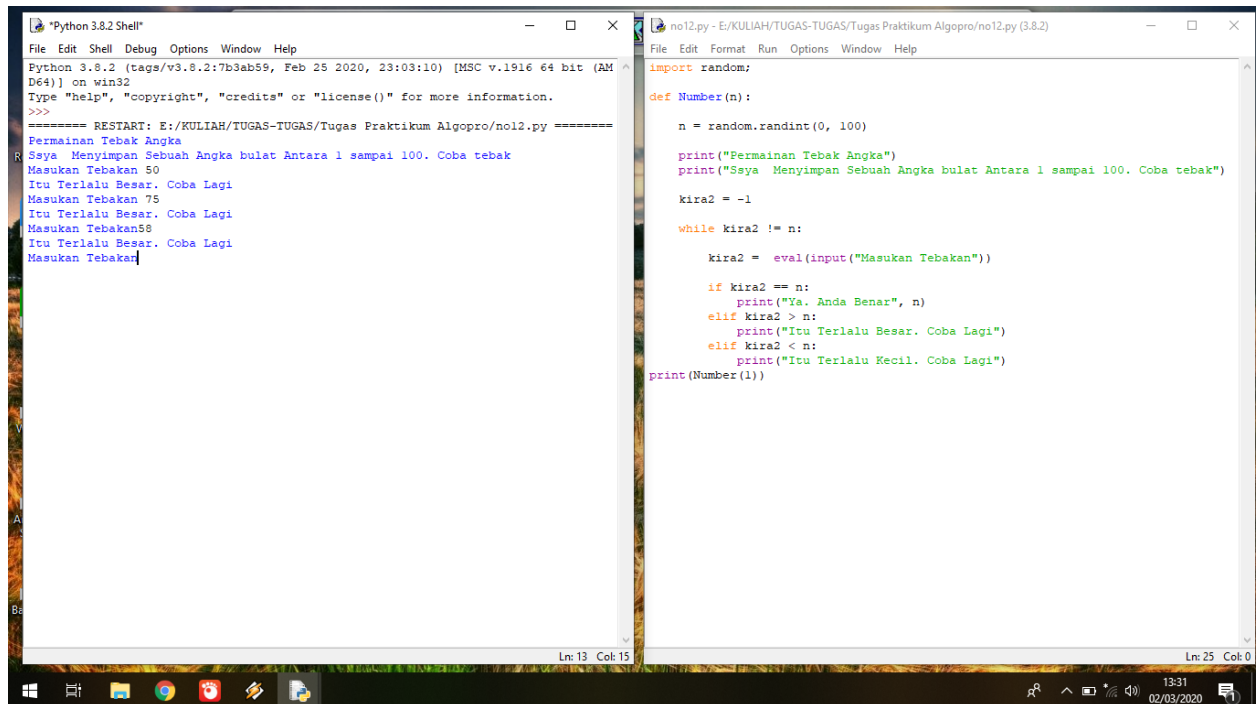
```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algoritma\nol1.py =====
>>> apakahKabisat(1996)
True
>>> |
```

The right window is a Python script editor titled 'no11.py - E:\KULIAH\TUGAS-TUGAS\Tugas Praktikum Algoritma\nol1.py (3.8.2)'. It contains the following code:

```
def apakahKabisat(n):
    if n%4==0:
        if n%100==0 and n%400==0:
            return True
        elif n%100==0 and n%400!=0:
            return False
        return True
    return False
```

The taskbar at the bottom shows the date and time as 02/03/2020 13:27.

12.No 12



The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.2 Shell' with the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algoritma/no12.py =====
Permainan Tebak Angka
Saya Menyimpan Sebuah Angka bulat Antara 1 sampai 100. Coba tebak
Masukan Tebakan 50
Itu Terlalu Besar. Coba Lagi
Masukan Tebakan 75
Itu Terlalu Besar. Coba Lagi
Masukan Tebakan 58
Itu Terlalu Besar. Coba Lagi
Masukan Tebakan
```

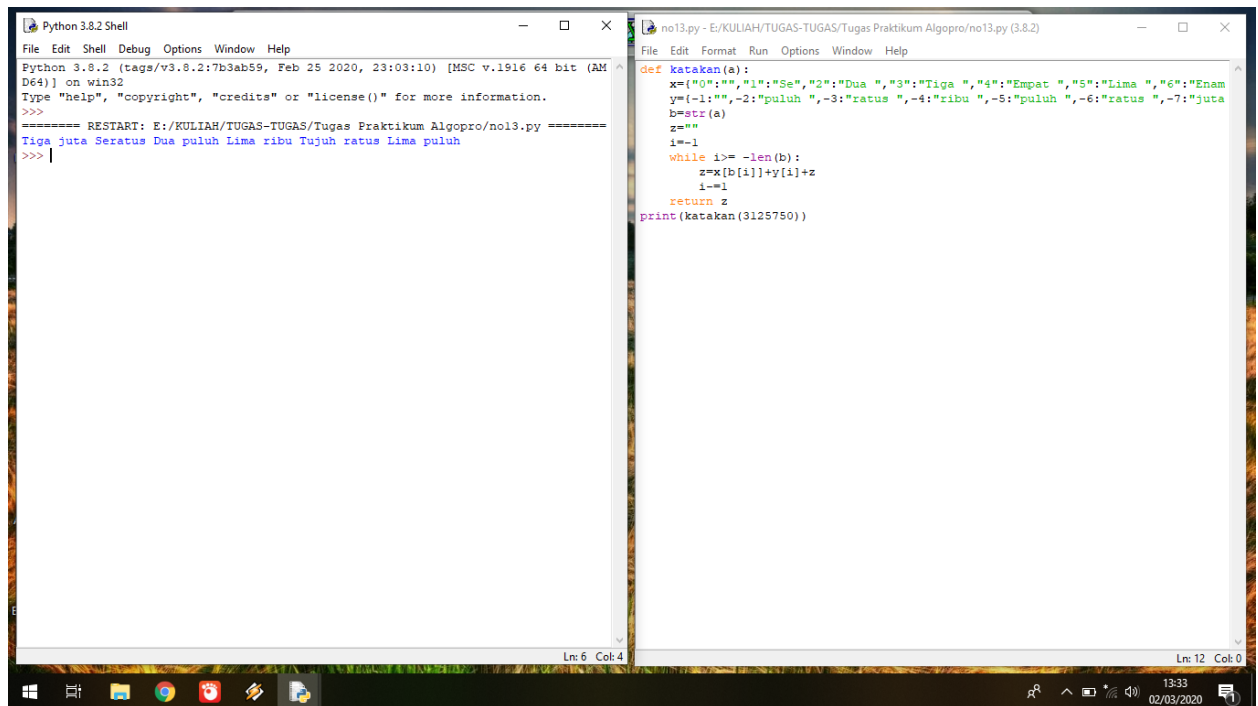
The right window is a Python script editor titled 'no12.py - E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algoritma/no12.py (3.8.2)'. It contains the following code:

```
import random

def Number(n):
    n = random.randint(0, 100)
    print("Permainan Tebak Angka")
    print("Saya Menyimpan Sebuah Angka bulat Antara 1 sampai 100. Coba tebak")

    kira2 = -1
    while kira2 != n:
        kira2 = eval(input("Masukan Tebakan"))
        if kira2 == n:
            print("Ya. Anda Benar", n)
        elif kira2 > n:
            print("Itu Terlalu Besar. Coba Lagi")
        elif kira2 < n:
            print("Itu Terlalu Kecil. Coba Lagi")
    print(Number(1))
```

13.No 13



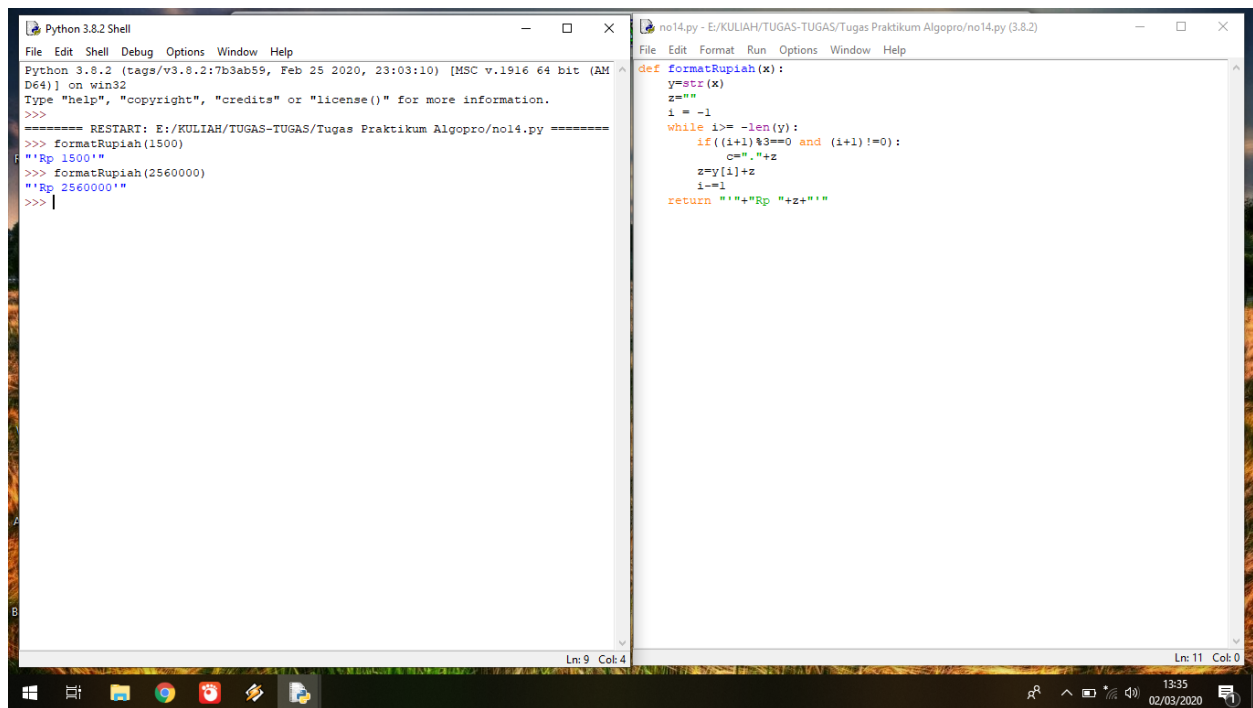
The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.2 Shell' with the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algoritma/no13.py =====
Tiga juta Seratus Dua puluh Lima ribu Tujuh ratus Lima puluh
>>>
```

The right window is a Python script editor titled 'no13.py - E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algoritma/no13.py (3.8.2)'. It contains the following code:

```
def katakan(a):
    x={"0":"","1":"Se", "2":"Dua ", "3":"Tiga ", "4":"Empat ", "5":"Lima ", "6":"Enam ", "7":"Tujuh ", "8":"Delapan ", "9":"Sembilan "}
    y={"-1":"","-2":"puluh ", "-3":"ratus ", "-4":"ribu ", "-5":"puluh ", "-6":"ratus ", "-7":"juta ", "-8":"","-9":""}
    z=""
    i=-1
    while i>=-len(b):
        z=x[b[i]]+y[i]+z
        i=-i-1
    return z
print(katakan(3125750))
```


14.No 14



The image shows a Windows desktop with two open applications. On the left is a 'Python 3.8.2 Shell' window, and on the right is a text editor window titled 'no14.py - E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algopro/no14.py (3.8.2)'.

The Python Shell window displays the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algopro/no14.py =====
>>> formatRupiah(1500)
''Rp 1500''
>>> formatRupiah(2560000)
''Rp 2560000''
>>> |
```

The text editor window shows the following Python code:

```
def formatRupiah(x):
    y=str(x)
    z=""
    i = -1
    while i >= -len(y):
        if ((i+1)%3==0 and (i+1)!=0):
            c="."+z
        z=y[i]+z
        i-=1
    return ''+"Rp "+z+''
```

The Windows taskbar at the bottom shows the time as 13:35 on 02/03/2020.