

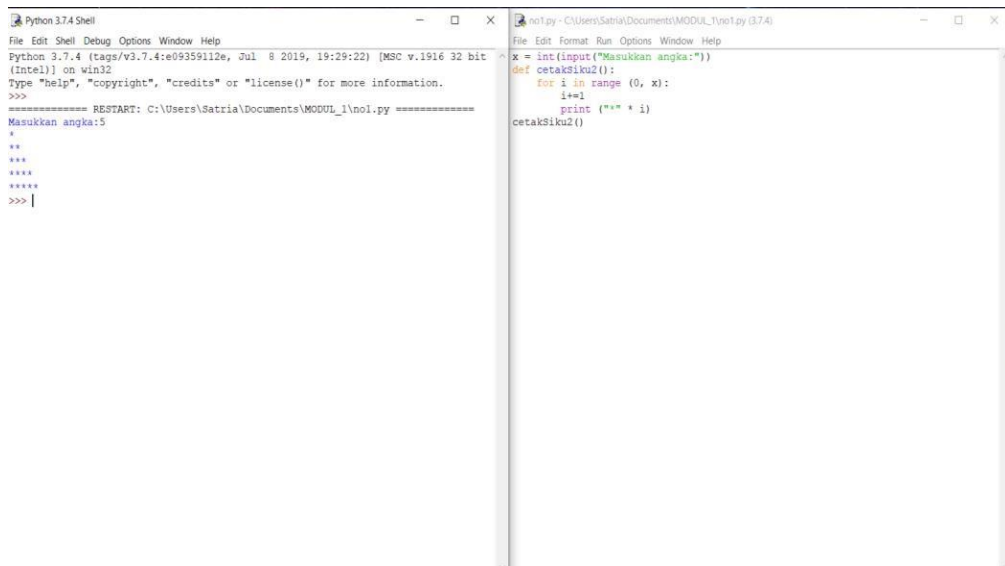
Nama : Muhammad Al Fatih

Nim : L200160029

Kelas : A

Tugas: Modul 1

1.



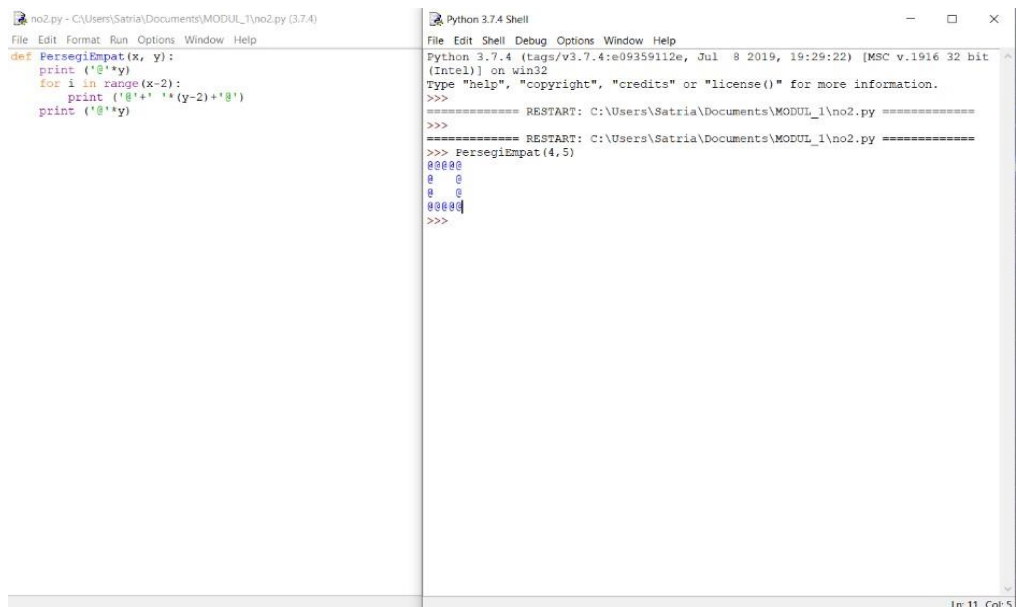
The screenshot shows two windows. The left window is a Python 3.7.4 Shell with the following content:

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\nol.py =====
Masukkan angka:5
*
**
***
****
>>>|
```

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

```
no1.py - C:\Users\Satria\Documents\MODUL_1\nol.py (3.7.4)
File Edit Format Run Options Window Help
x = int(input("Masukkan angka:"))
def cetakSiku2():
    for i in range (0, x):
        i+=1
        print ("*" * i)
    cetakSiku2()
```

2.



The screenshot shows two windows. The left window is a Python script editor showing the following code:

```
no2.py - C:\Users\Satria\Documents\MODUL_1\no2.py (3.7.4)
File Edit Format Run Options Window Help
def PersegiEmpat(x, y):
    print ('@'*y)
    for i in range (x-2):
        print ('@'+ ' '*(y-2)+'@')
    print ('@'*y)
```

The right window is a Python 3.7.4 Shell with the following content:

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no2.py =====
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no2.py =====
>>> PersegiEmpat(4,5)
@@@@@
@  @
@  @
@@@@@
>>>
```

3.

a.

<pre>no3.py - C:\Users\Satria\Documents\MODUL_1\no3.py (3.7.4) File Edit Format Run Options Window Help def jumlahHurufVokal(x):     total = 0     vokal = ["a","i","u","e","o"]     for k in x:         if k in vokal:             total+=1     return [len(x),total] x=jumlahHurufVokal("satria") print (x)</pre>	<pre>Python 3.7.4 Shell File Edit Shell Debug Options Window Help Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. &gt;&gt;&gt; ===== RESTART: C:\Users\Satria\Documents\MODUL_1\no3.py ===== &gt;&gt;&gt; [6, 3] &gt;&gt;&gt;</pre>
---	---

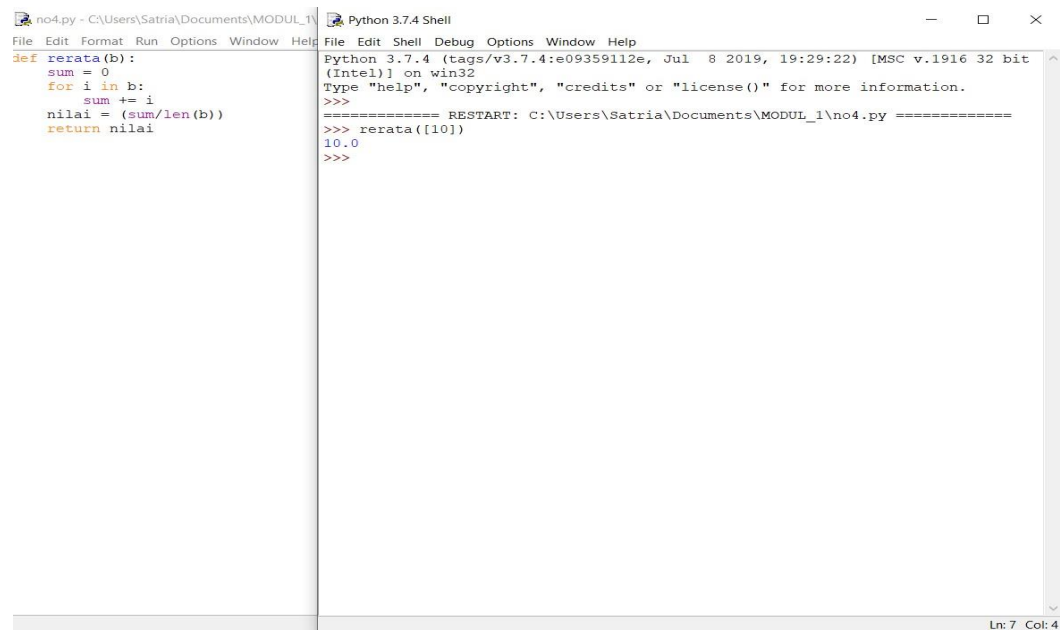
Ln: 6 Col: 4

3.b

<pre>no3b.py - C:\Users\Satria\Documents\MODUL_1\no3b.py (3.7.4) File Edit Format Run Options Window Help def jumlahHurufKonsonan(x):     total = 0     vokal = ["a","i","u","e","o"]     for i in x:         if i in vokal:             total+=1     return [len(x), len(x)-total] i=jumlahHurufKonsonan("satria") print(i)</pre>	<pre>Python 3.7.4 Shell File Edit Shell Debug Options Window Help Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. &gt;&gt;&gt; ===== RESTART: C:\Users\Satria\Documents\MODUL_1\no3b.py ===== &gt;&gt;&gt; [6, 3] &gt;&gt;&gt;  </pre>
--	--

Ln: 6 Col: 4

4.



The screenshot shows a Python IDE with two windows. The left window, titled 'no4.py - C:\Users\Satria\Documents\MODUL\_1', contains the following code:

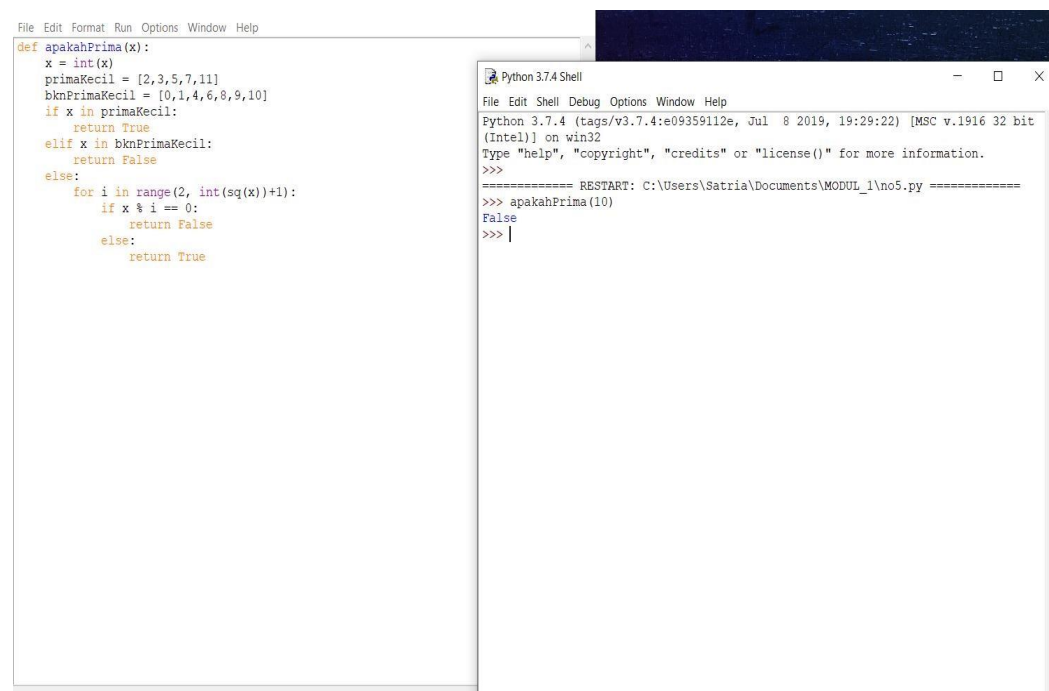
```
def rerata(b):  
    sum = 0  
    for i in b:  
        sum += i  
    nilai = (sum/len(b))  
    return nilai
```

The right window, titled 'Python 3.7.4 Shell', shows the execution of the script. It displays the Python version and architecture, followed by a restart message and the execution of the `rerata([10])` function, which returns `10.0`.

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no4.py =====  
>>> rerata([10])  
10.0  
>>>
```

Ln: 7 Col: 4

5.



The screenshot shows a Python IDE with two windows. The left window, titled 'no5.py - C:\Users\Satria\Documents\MODUL\_1', contains the following code:

```
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
```

The right window, titled 'Python 3.7.4 Shell', shows the execution of the script. It displays the Python version and architecture, followed by a restart message and the execution of the `apakahPrima(10)` function, which returns `False`.

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no5.py =====  
>>> apakahPrima(10)  
False  
>>> |
```

6.

```
no6.py - C:\Users\Satria\Documents\MODUL_1\no6.py (3.7.4)
File Edit Format Run Options Window Help
from math import sqrt as sq
def apaPrima(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
            break
        else :
            return True
for i in range (2,1001):
    print(str(i)+" "+str(apaPrima(i)))

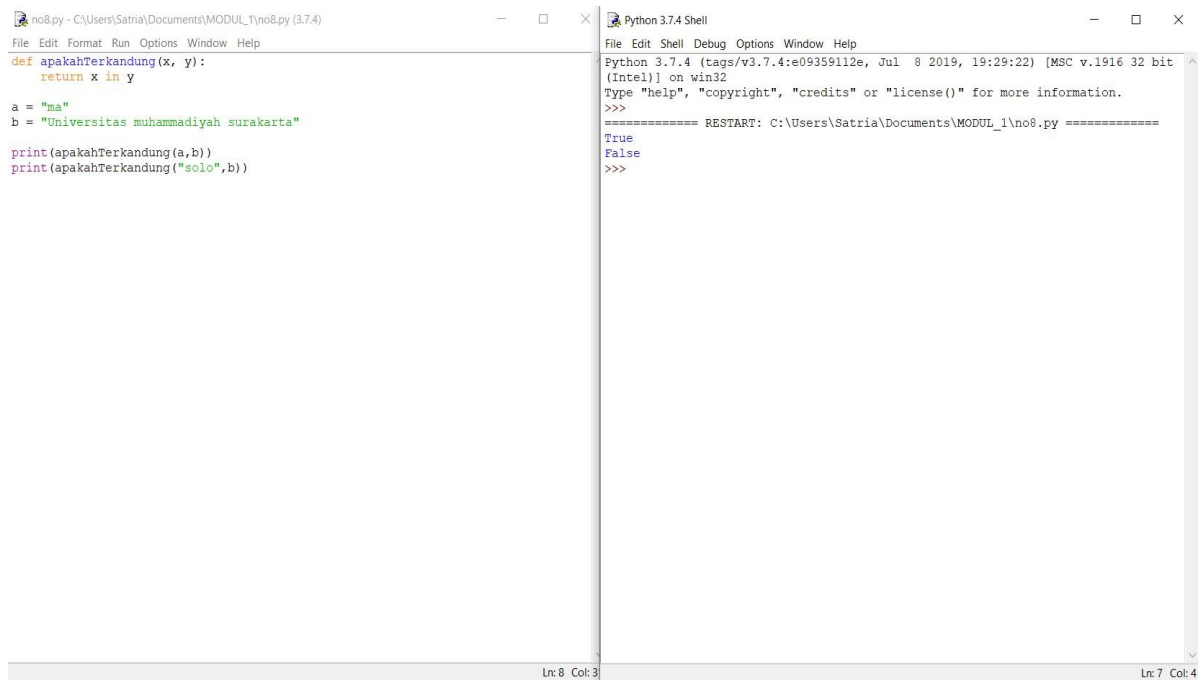
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no6.py =====
2 True
3 True
4 False
5 True
6 False
7 True
8 False
9 False
10 False
11 True
12 False
13 True
14 False
15 False
16 False
17 True
18 False
19 True
20 False
21 False
22 False
23 True
24 False
25 False
26 False
27 False
28 False
29 True
30 False
31 True
32 False
33 False
34 False
35 False
36 False
Ln: 6 Col: 0
Ln: 4 Col: 16
```

7.

```
no7.py - C:\Users\Satria\Documents\MODUL_1\no7.py (3.7.4)
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

Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no7.py =====
>>> faktorprima(69)
[3, 23]
>>> |
Ln: 7 Col: 4
```

8.



The screenshot shows a Python IDE with two windows. The left window, titled 'no8.py - C:\Users\Satria\Documents\MODUL\_1\no8.py (3.7.4)', contains the following code:

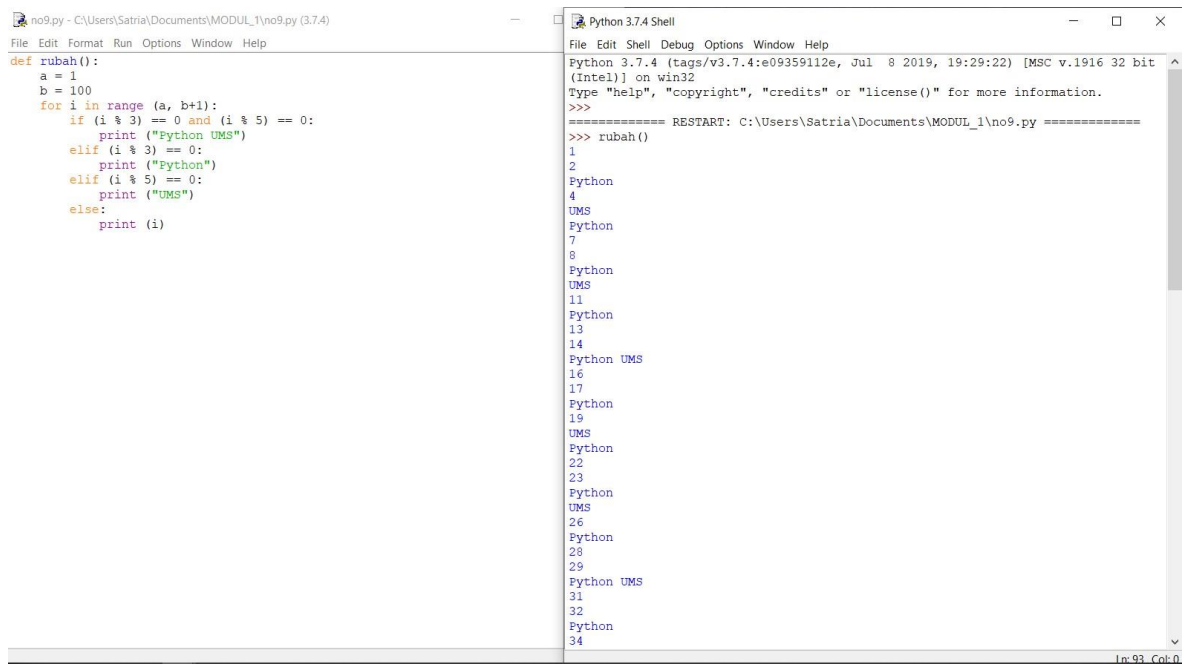
```
def apakahTerkandung(x, y):  
    return x in y  
  
a = "ma"  
b = "Universitas muhammadiyah surakarta"  
  
print(apakahTerkandung(a,b))  
print(apakahTerkandung("solo",b))
```

The right window, titled 'Python 3.7.4 Shell', shows the output of the script:

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit  
(Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no8.py =====  
True  
False  
>>>
```

The status bar at the bottom indicates 'Ln: 8 Col: 3' for the left window and 'Ln: 7 Col: 4' for the right window.

9.



The screenshot shows a Python IDE with two windows. The left window, titled 'no9.py - C:\Users\Satria\Documents\MODUL\_1\no9.py (3.7.4)', contains the following code:

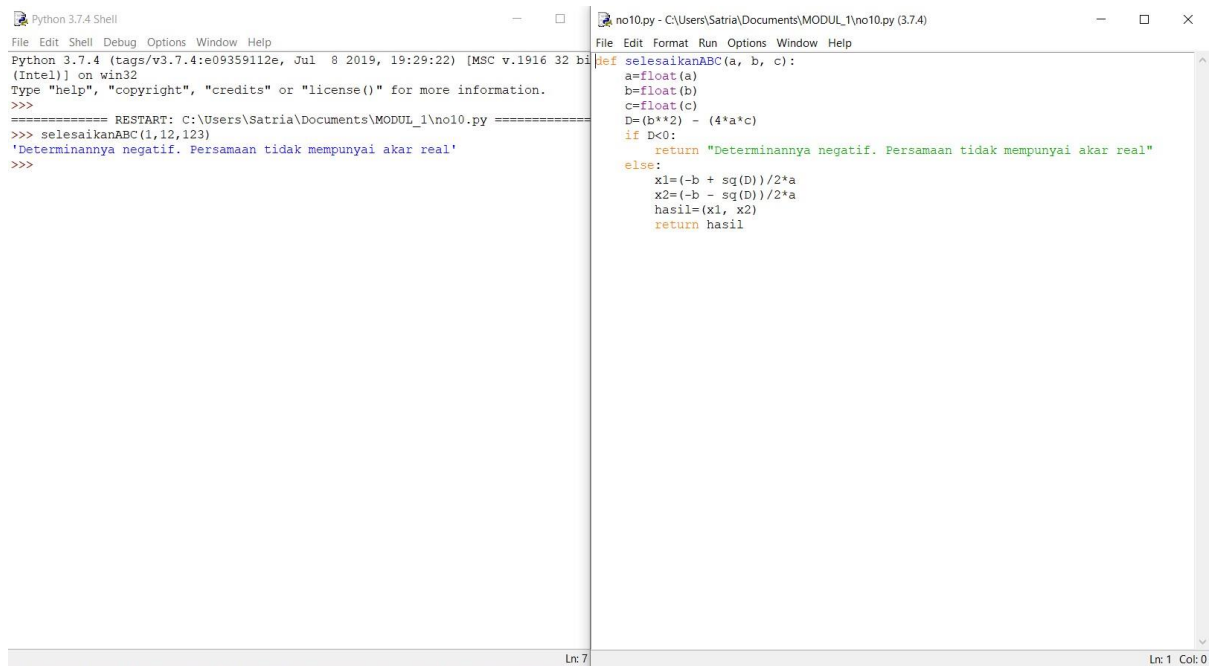
```
def rubah():  
    a = 1  
    b = 100  
    for i in range(a, b+1):  
        if (i % 3) == 0 and (i % 5) == 0:  
            print("Python UMS")  
        elif (i % 3) == 0:  
            print("Python")  
        elif (i % 5) == 0:  
            print("UMS")  
        else:  
            print(i)
```

The right window, titled 'Python 3.7.4 Shell', shows the output of the script:

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit  
(Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no9.py =====  
>>> rubah()  
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  
34
```

The status bar at the bottom indicates 'Ln: 93 Col: 0' for the right window.

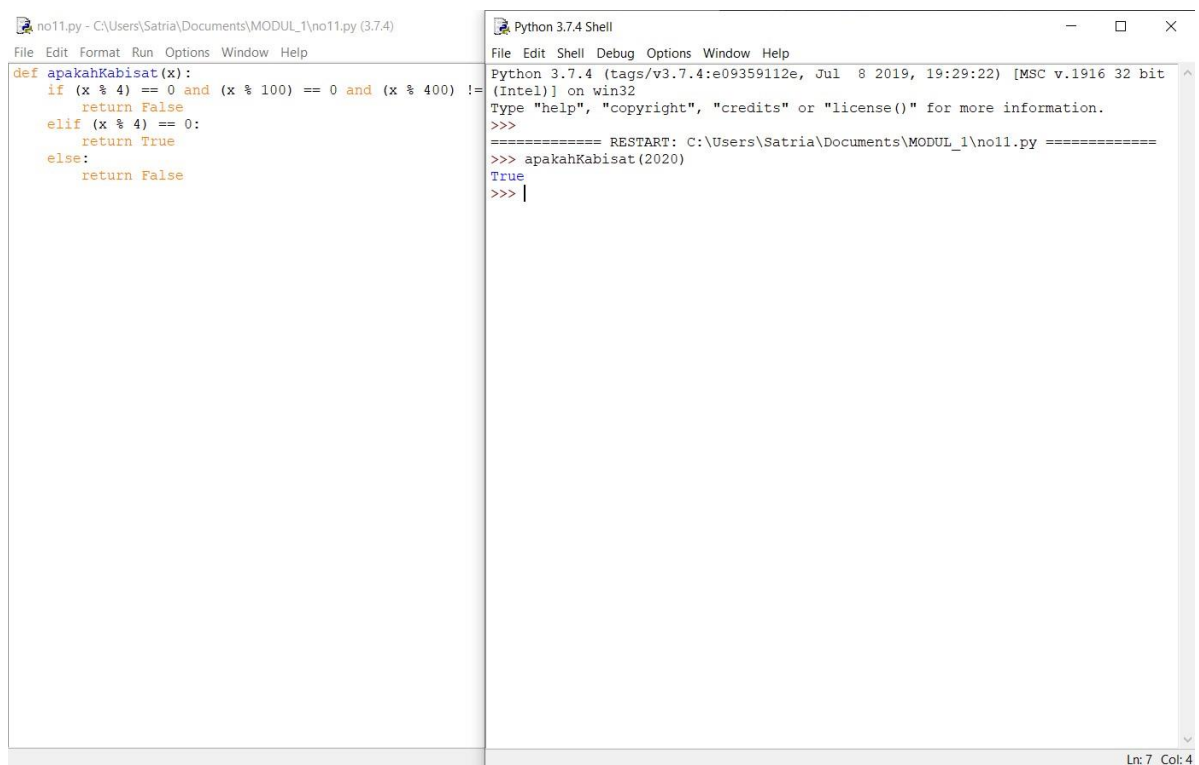
10.



```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no10.py =====
>>> selesaikanABC(1,12,123)
'Determinannya negatif. Persamaan tidak mempunyai akar real'
>>>
```

```
no10.py - C:\Users\Satria\Documents\MODUL_1\no10.py (3.7.4)
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.



```
no11.py - C:\Users\Satria\Documents\MODUL_1\no11.py (3.7.4)
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
```

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no11.py =====
>>> apakahKabisat(2020)
True
>>> |
```

12.

```
no12.py - C:\Users\Satria\Documents\MODUL_1\no12.py (3.7.4)
File Edit Format Run Options Window Help

import random
print("""Permainan tebak angka.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba Tebak!""")
a = random.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")
        else:
            print ("Itu terlalu besar. Coba lagi")
    else:
        if i >= 2:
            print ("Itu terlalu kecil. Kesempatan habis. Nilainya adalah")
        else:
            print ("Itu terlalu kecil. Coba lagi")

Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no12.py =====
Permainan tebak angka.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba Tebak!
Masukkan tebakan ke-1:>10
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-2:>5
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-3:>1
Itu terlalu kecil. Kesempatan habis. Nilainya adalah 84
>>>
```

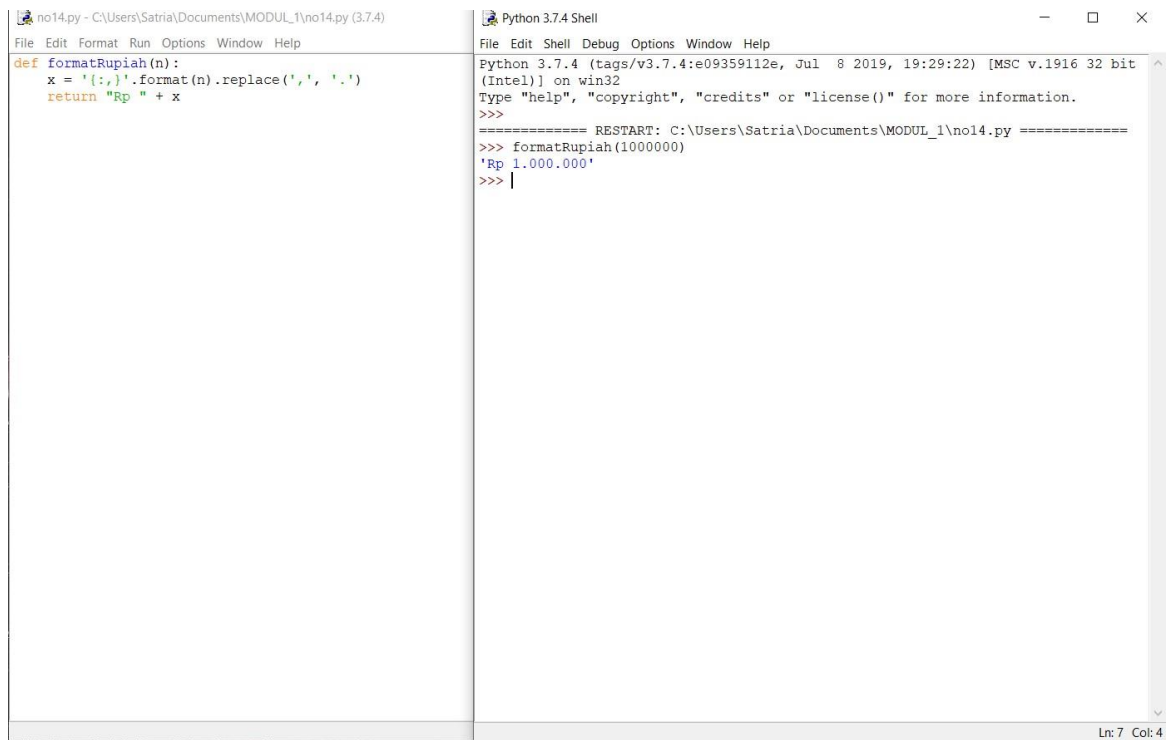
13.

```
no13.py - C:\Users\Satria\Documents\MODUL_1\no13.py (3.7.4)
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 bel
              "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])

Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no13.py =====
>>> katakan(100)
'seratus'
>>> katakan(1000)
'seribu'
>>> katakan(11111)
'sebelas ribu seratus sebelas'
>>> katakan(11111111)
'sebelas juta seratus sebelas ribu seratus sebelas'
>>>
```

14.



The image shows a Python IDE with two panes. The left pane displays a script named `no14.py` with the following code:

```
def formatRupiah(n):  
    x = '{:,}'.format(n).replace(', ', '.')  
    return "Rp " + x
```

The right pane shows the Python 3.7.4 Shell with the following output:

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit  
(Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: C:\Users\Satria\Documents\MODUL_1\no14.py =====  
>>> formatRupiah(1000000)  
'Rp 1.000.000'  
>>> |
```

The status bar at the bottom right indicates the cursor is at line 7, column 4.