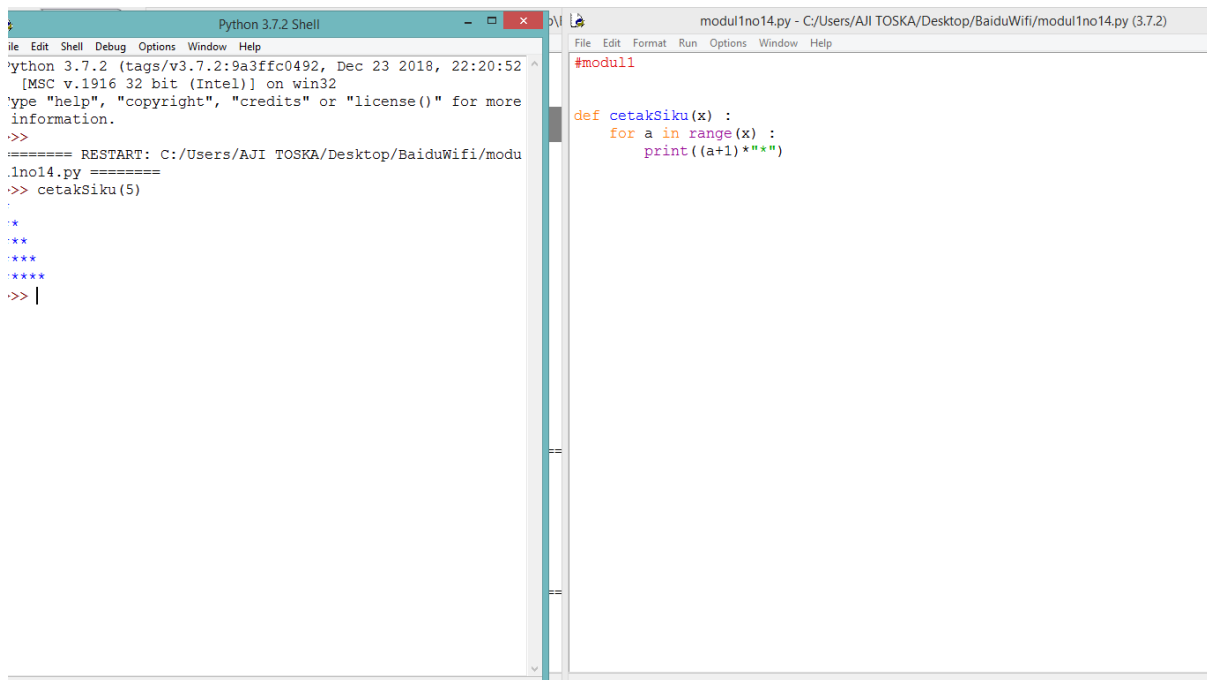


MODUL 1

Nama : Aji Mustaqim

NIM : L200180141/E

No 1



The screenshot shows two windows. The left window is a 'Python 3.7.2 Shell' with the following text:

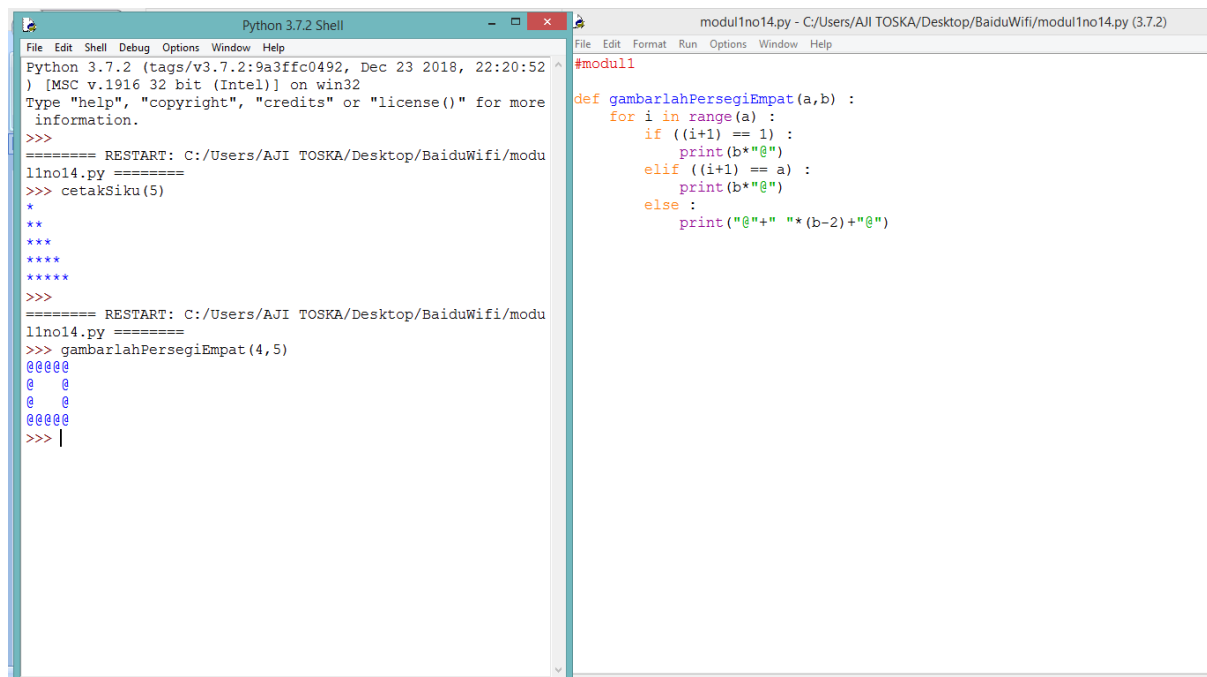
```
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52)
[MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more
information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> cetakSiku(5)
:
*
**
***
****
>>> |
```

The right window is a text editor titled 'modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)' containing the following code:

```
#modul1

def cetakSiku(x) :
    for a in range(x) :
        print((a+1)*" ")
```

No 2



The screenshot shows two windows. The left window is a 'Python 3.7.2 Shell' with the following text:

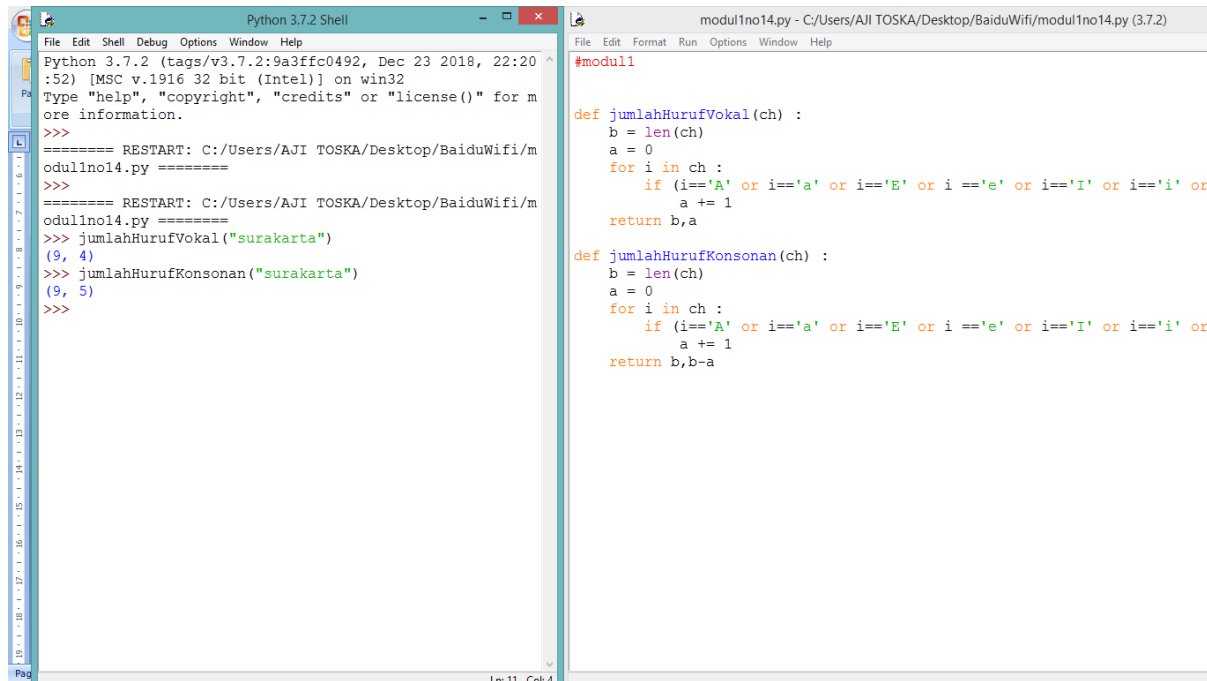
```
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52)
[MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more
information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> cetakSiku(5)
*
**
***
****
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> gambarlahPersegiEmpat(4,5)
@@@@
@  @
@  @
@@@@
>>> |
```

The right window is a text editor titled 'modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)' containing the following code:

```
#modul1

def gambarlahPersegiEmpat(a,b) :
    for i in range(a) :
        if ((i+1) == 1) :
            print(b*"@")
        elif ((i+1) == a) :
            print(b*"@")
        else :
            print("@ "+" "*(b-2)+"@")
```

No 3



The image shows a Python 3.7.2 Shell window on the left and a file editor window on the right. The shell window displays the execution of a script named `modul1no14.py`. The file editor shows the source code of `modul1no14.py`, which defines two functions: `jumlahHurufVokal` and `jumlahHurufKonsonan`.

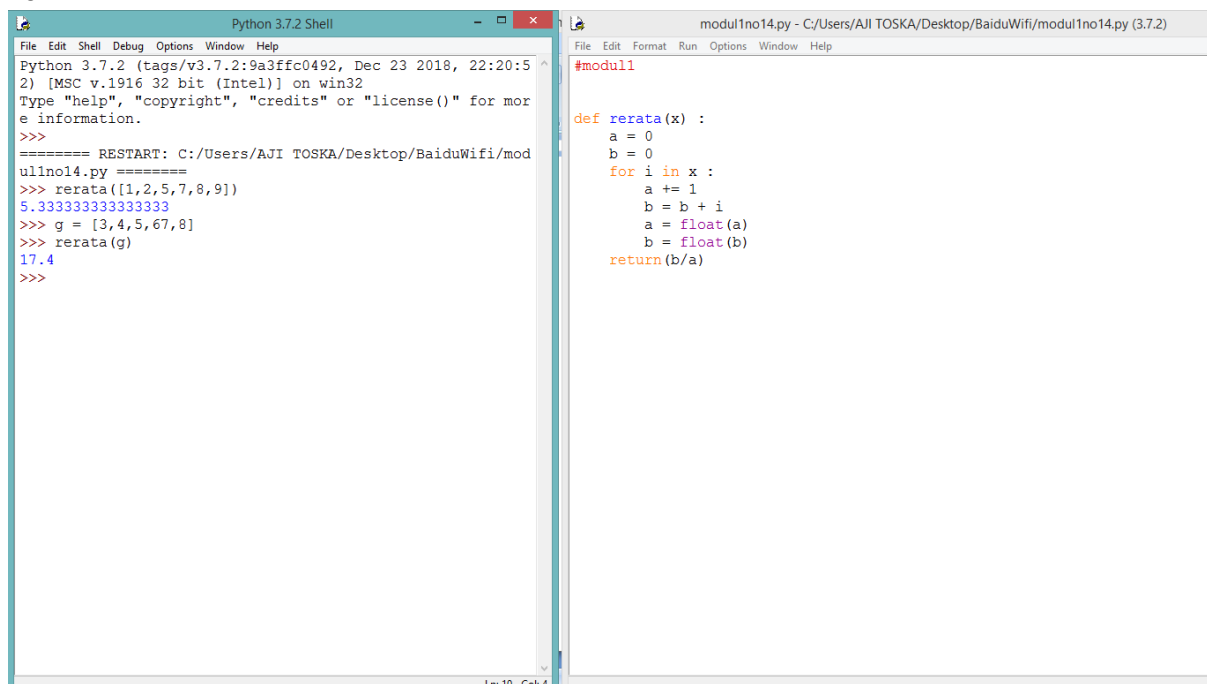
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> jumlahHurufVokal("surakarta")
(9, 4)
>>> jumlahHurufKonsonan("surakarta")
(9, 5)
>>>
```

```
modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)
File Edit Format Run Options Window Help
#modul1

def jumlahHurufVokal(ch) :
    b = len(ch)
    a = 0
    for i in ch :
        if (i=='A' or i=='a' or i=='E' or i=='e' or i=='I' or i=='i' or
            a += 1
    return b,a

def jumlahHurufKonsonan(ch) :
    b = len(ch)
    a = 0
    for i in ch :
        if (i=='A' or i=='a' or i=='E' or i=='e' or i=='I' or i=='i' or
            a += 1
    return b,b-a
```

No 4



The image shows a Python 3.7.2 Shell window on the left and a file editor window on the right. The shell window displays the execution of a script named `modul1no14.py`. The file editor shows the source code of `modul1no14.py`, which defines a function `rerata` that calculates the average of a list of numbers.

```
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.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> rerata([1,2,5,7,8,9])
5.333333333333333
>>> g = [3,4,5,67,8]
>>> rerata(g)
17.4
>>>
```

```
modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)
File Edit Format Run Options Window Help
#modul1

def rerata(x) :
    a = 0
    b = 0
    for i in x :
        a += 1
        b = b + i
        a = float(a)
        b = float(b)
    return(b/a)
```

No 5

```
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.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> apakahPrima(17)
YA
>>>
```

```
modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)
File Edit Format Run Options Window Help
#modul1

def apakahPrima(a) :
    x = 0
    for i in range(a) :
        if a % (i+1) == 0 :
            x += 1
    if x == 2 :
        print("YA")
    else :
        print("TIDAK")
```

No 6

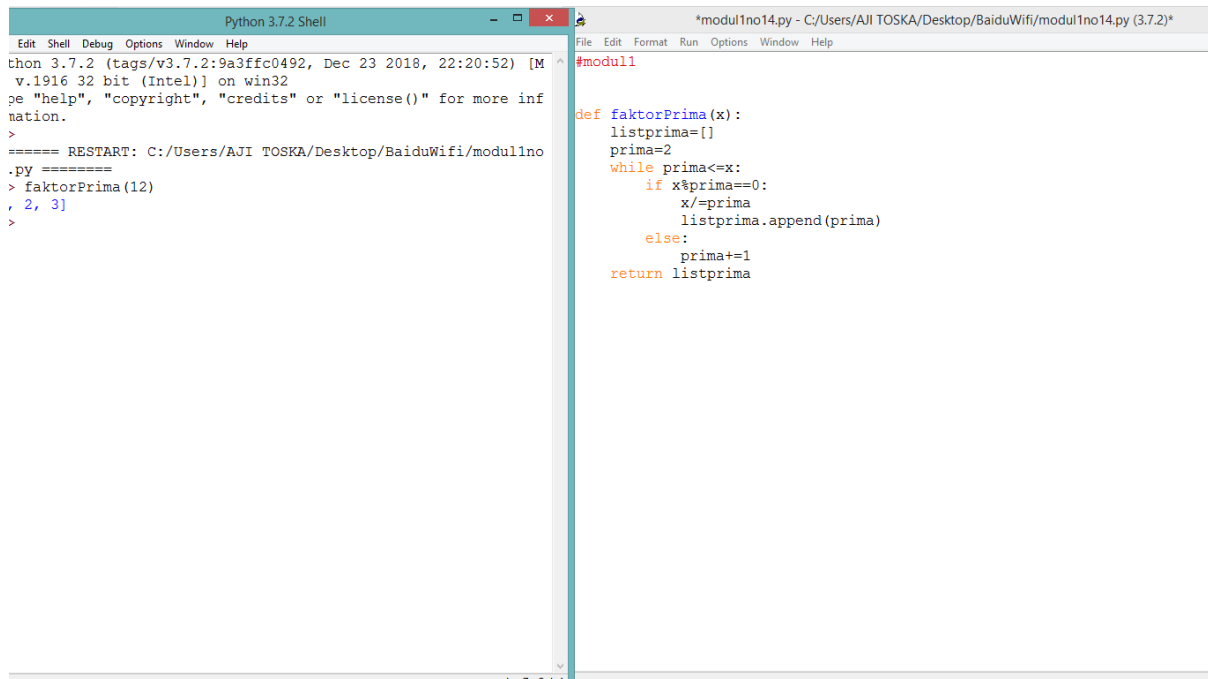
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> cekPrima()
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

```

```
modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)
File Edit Format Run Options Window Help
#modul1

def cekPrima() :
    y = range(1001)
    for i in range(2,1001) :
        x = 0
        for j in range(i) :
            if i % (j+1) == 0 :
                x += 1
        if x == 2 :
            print(i)
```

No 7



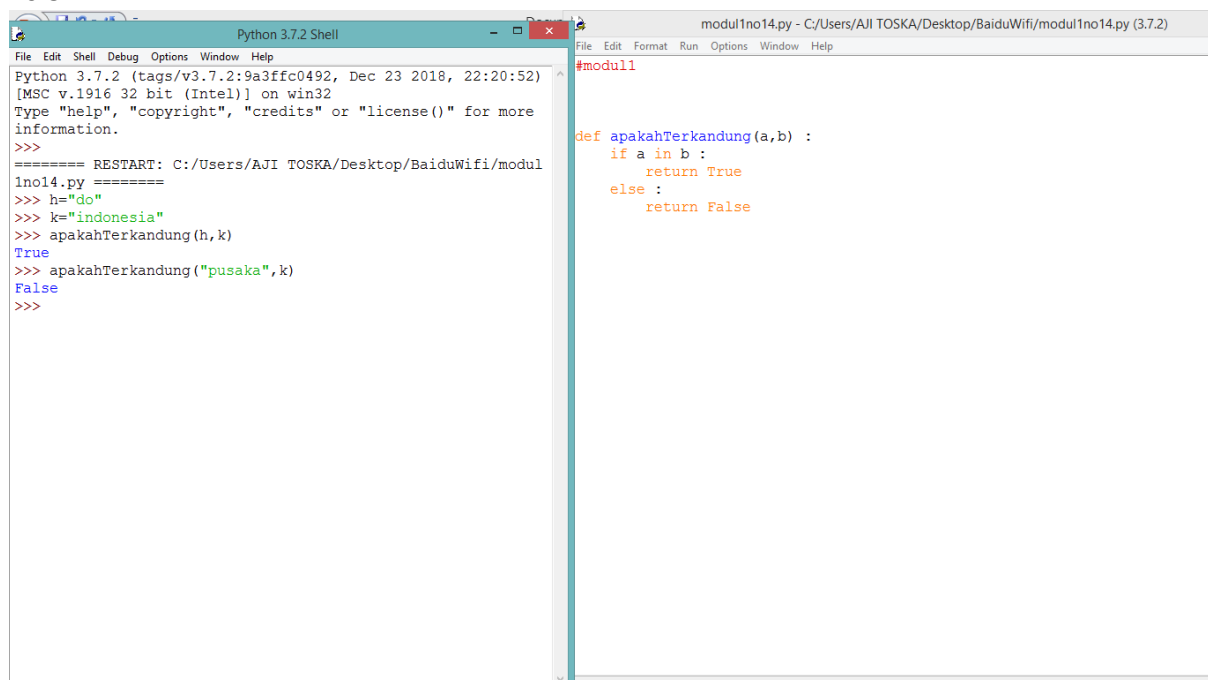
The image shows two windows from a Python 3.7.2 environment. The left window is a 'Python 3.7.2 Shell' with a menu bar (File, Shell, Debug, Options, Window, Help). It displays the Python version and architecture, followed by a restart command and the execution of a script named 'modul1no14.py'. The script defines a function 'faktorPrima(x)' that returns a list of prime factors for the input number x. The right window is a text editor titled '*modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)*' with a menu bar (File, Edit, Format, Run, Options, Window, Help). It contains the source code for the 'faktorPrima' function.

```
Python 3.7.2 Shell
File Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
> faktorPrima(12)
[2, 3]
>

*modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)*
File Edit Format Run Options Window Help
#modul1

def faktorPrima(x):
    listprima=[]
    prima=2
    while prima<=x:
        if x%prima==0:
            x/=prima
            listprima.append(prima)
        else:
            prima+=1
    return listprima
```

No 8



The image shows two windows from a Python 3.7.2 environment. The left window is a 'Python 3.7.2 Shell' with a menu bar (File, Shell, Debug, Options, Window, Help). It displays the Python version and architecture, followed by a restart command and the execution of a script named 'modul1no14.py'. The script defines a function 'apakahTerkandung(a,b)' that checks if string 'a' is a substring of string 'b'. The right window is a text editor titled 'modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)' with a menu bar (File, Edit, Format, Run, Options, Window, Help). It contains the source code for the 'apakahTerkandung' function.

```
Python 3.7.2 Shell
File Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> h="do"
>>> k="indonesia"
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung("pusaka",k)
False
>>>

modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)
File Edit Format Run Options Window Help
#modul1

def apakahTerkandung(a,b) :
    if a in b :
        return True
    else :
        return False
```

No 9

The image shows two windows from a Python 3.7.2 environment. The left window is a 'Python 3.7.2 Shell' with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). It displays the execution of a script named 'modul1no14.py'. The output shows a loop from 1 to 32, where the program prints 'Python UMS' for odd numbers and 'Python' for even numbers. The right window is a script editor for '*modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)*'. It contains the following code:

```
#modul1

def ums() :
    for i in range(101) :
        if (i+1) % 15 == 0 :
            print("Python UMS")
        elif (i+1) % 3 == 0 :
            print("Python")
        elif (i+1) % 5 == 0 :
            print("UMS")
        else :
            print(i+1)
```

No 10

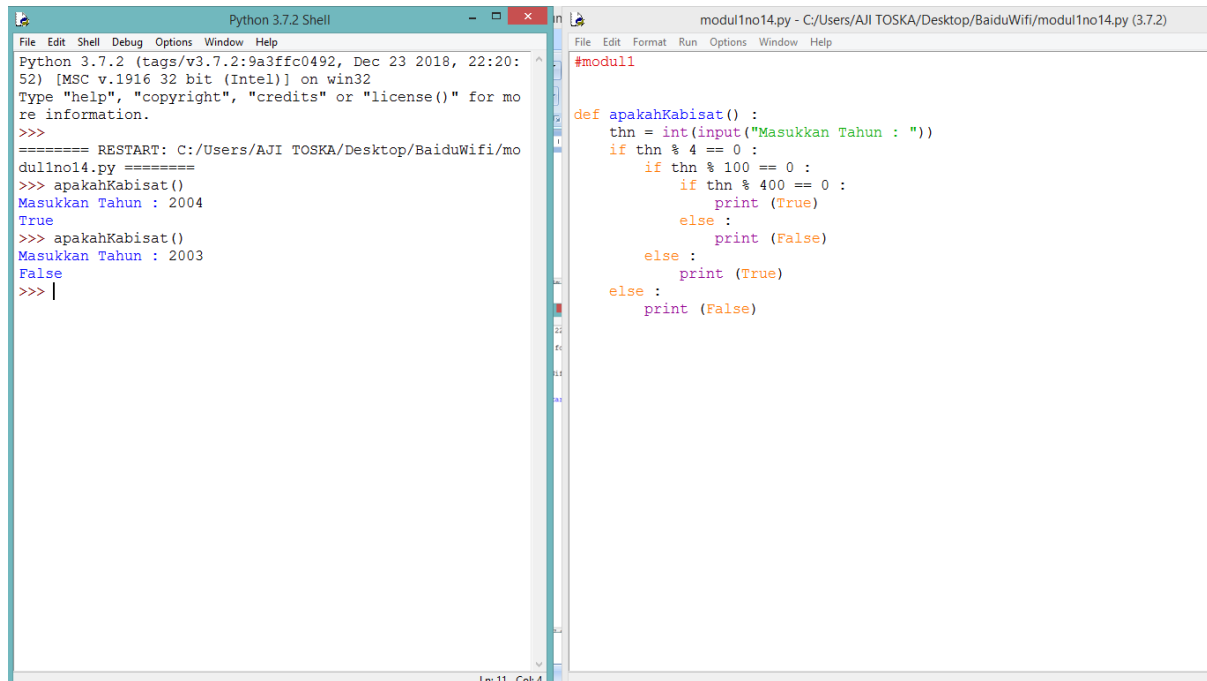
The image shows two windows from a Python 3.7.2 environment. The left window is a 'Python 3.7.2 Shell' with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). It displays the execution of a script named 'modul1no14.py'. The output shows the result of the function 'selesaikanABC(1,2,3)', which is 'Determinannya negatif. Persamaan tidak mempunyai akar real.'. The right window is a script editor for '*modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)*'. It contains the following code:

```
#modul1

def selesaikanABC(a,b,c) :
    res = 0
    res = (b**2) - (4*a*c)

    if res == 0 :
        print("Determinannya nol. Persamaan mempunyai satu akar kembar.")
    elif res > 0 :
        print("Determinannya positif. Persamaan mempunyai akar real dan ")
    elif res < 0 :
        print("Determinannya negatif. Persamaan tidak mempunyai akar rea")
```

No 11



The image shows two windows. The left window is a Python 3.7.2 Shell with the following output:

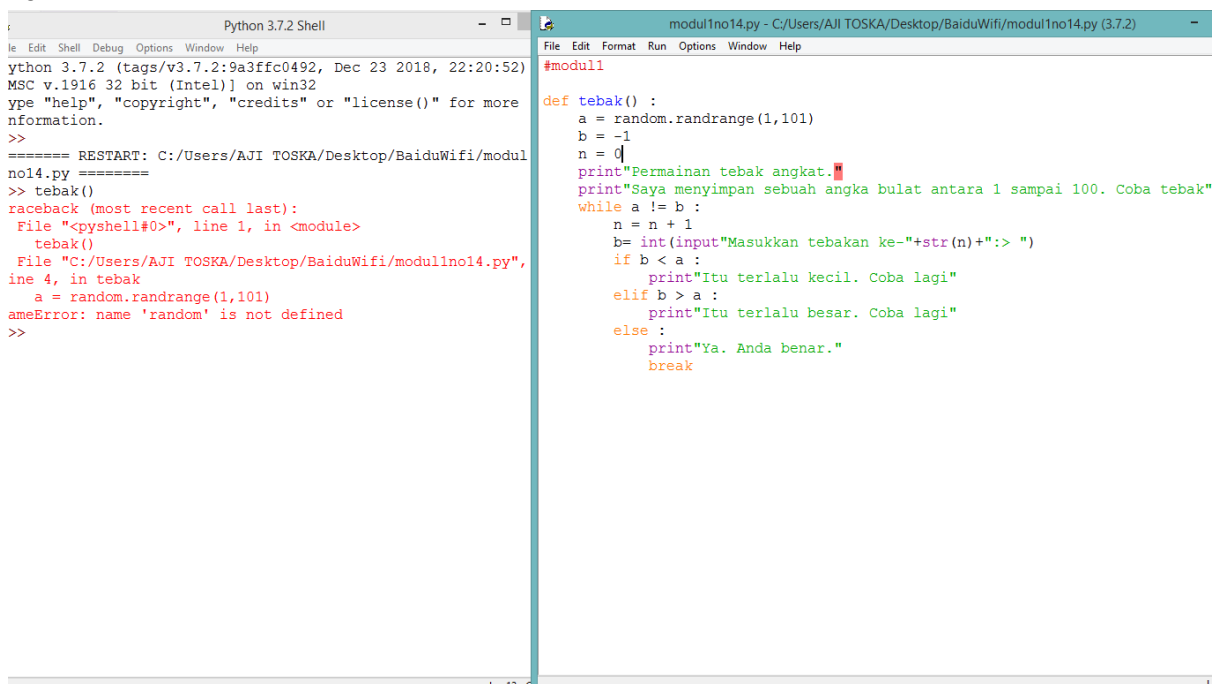
```
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> apakahKabisat()
Masukkan Tahun : 2004
True
>>> apakahKabisat()
Masukkan Tahun : 2003
False
>>> |
```

The right window is a Python script editor showing the code for the `apakahKabisat` function:

```
#modul1

def apakahKabisat() :
    thn = int(input("Masukkan Tahun : "))
    if thn % 4 == 0 :
        if thn % 100 == 0 :
            if thn % 400 == 0 :
                print (True)
            else :
                print (False)
        else :
            print (True)
    else :
        print (False)
```

No 12



The image shows two windows. The left window is a Python 3.7.2 Shell with the following output:

```
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> tebak()
Traceback (most recent call last):
  File "<pyshell#0>", line 1, in <module>
    tebak()
  File "C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py", line 4, in tebak
    a = random.randrange(1,101)
NameError: name 'random' is not defined
>>>
```

The right window is a Python script editor showing the code for the `tebak` function:

```
#modul1

def tebak() :
    a = random.randrange(1,101)
    b = -1
    n = 0
    print("Permainan tebak angka.")
    print("Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak")
    while a != b :
        n = n + 1
        b = int(input("Masukkan tebakan ke-"+str(n)+"> "))
        if b < a :
            print("Itu terlalu kecil. Coba lagi")
        elif b > a :
            print("Itu terlalu besar. Coba lagi")
        else :
            print("Ya. Anda benar.")
            break
```

No 13

The image 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 the script, showing the output of the `katakan` function for the input `3125750`. The script editor shows the code for the `katakan` function, which converts a number into its Indonesian text representation.

```
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.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> katakan(3125750)
'tiga juta seratus dua puluh lima ribu tujuh ratus lima puluh Bilangan Haruslah Positif\ndan Bilangan Asli'
>>>
(x)
```

```
modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)
File Edit Format Run Options Window Help
#modul1
def katakan(x):
    satuan = [' ', 'satu', 'dua', 'tiga', 'empat', 'lima', 'enam', 'tujuh',
    hasil = ""
    if x <= 0:
        hasil += 'Bilangan Haruslah Positif\ndan Bilangan Asli'
    elif x < 12:
        hasil += satuan[x]
    elif x < 20:
        hasil += katakan(x-10) + " belas "
    elif x < 100:
        hasil += katakan(int(x/10)) + " puluh " + katakan(x%10)
    elif x < 200:
        hasil += "seratus " + katakan(x-100)
    elif x < 1000:
        hasil += katakan(int(x/100)) + " ratus " + katakan(x%100)
    elif x < 2000:
        hasil += "seribu " + katakan(x-1000)
    elif x < 1000000:
        hasil += katakan(int(x/1000)) + " ribu " + katakan(x%1000)
    elif x < 1000000000:
        hasil += katakan(int(x/1000000)) + " juta " + katakan(x%1000000)
    elif x >= 1000000000:
        hasil += katakan(int(x/1000000000)) + " milyar " + katakan(x%1000000)
    return hasil
```

No 14

The image 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 the script, showing the output of the `formatRupiah` function for the input `150000`. The script editor shows the code for the `formatRupiah` function, which formats a number into its Indonesian text representation.

```
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.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py =====
>>> formatRupiah(150000)
Rp 150.000
>>>
(a)
```

```
modul1no14.py - C:/Users/AJI TOSKA/Desktop/BaiduWifi/modul1no14.py (3.7.2)
File Edit Format Run Options Window Help
#modul1
def formatRupiah(a) :
    a = list(str(a))
    b = len(a)
    if b % 3 == 0 :
        b = int(b/3) - 1
    else :
        b = int(b/3)
    n = 0
    for i in range(b) :
        x = -3*(i+1)
        a.insert(int(x)+n, ".")
        n = n - 1
    a = ".".join(a)
    print("Rp "+a)
```