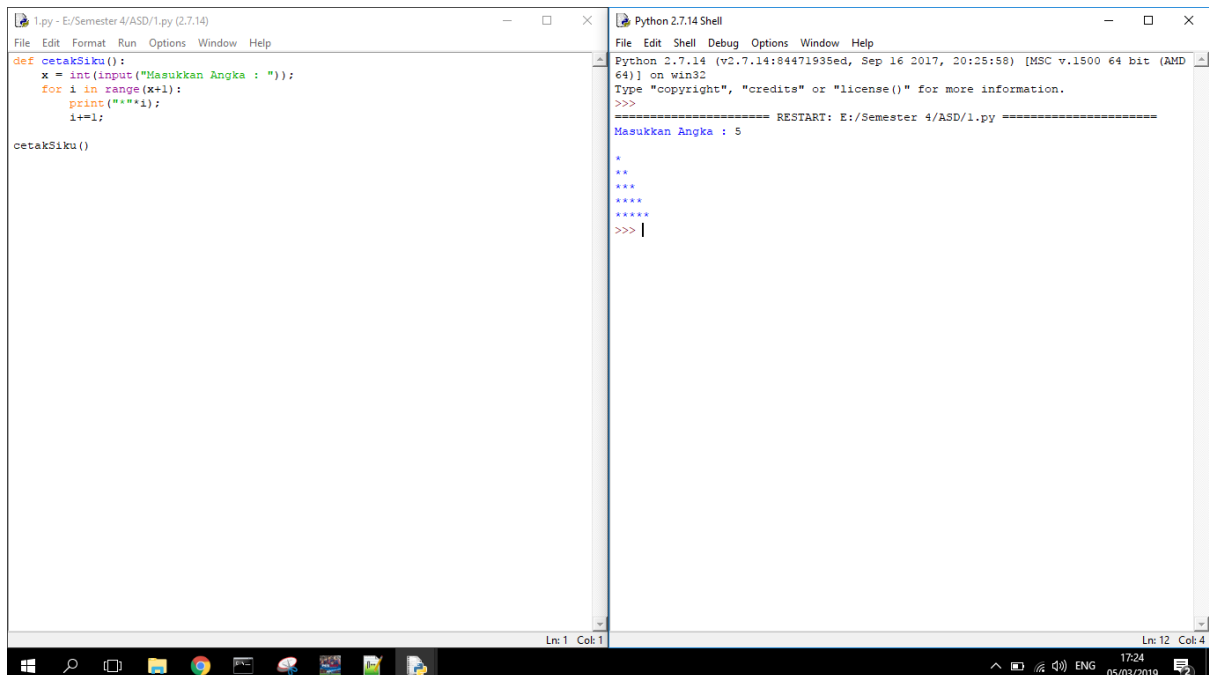


**NAMA : PUJI NUGROHO**  
**NIM : L200170123**  
**KELAS : D**

## Modul 1 : Tinjauan Ulang Python Soal –soal untuk Mahasiswa

1.



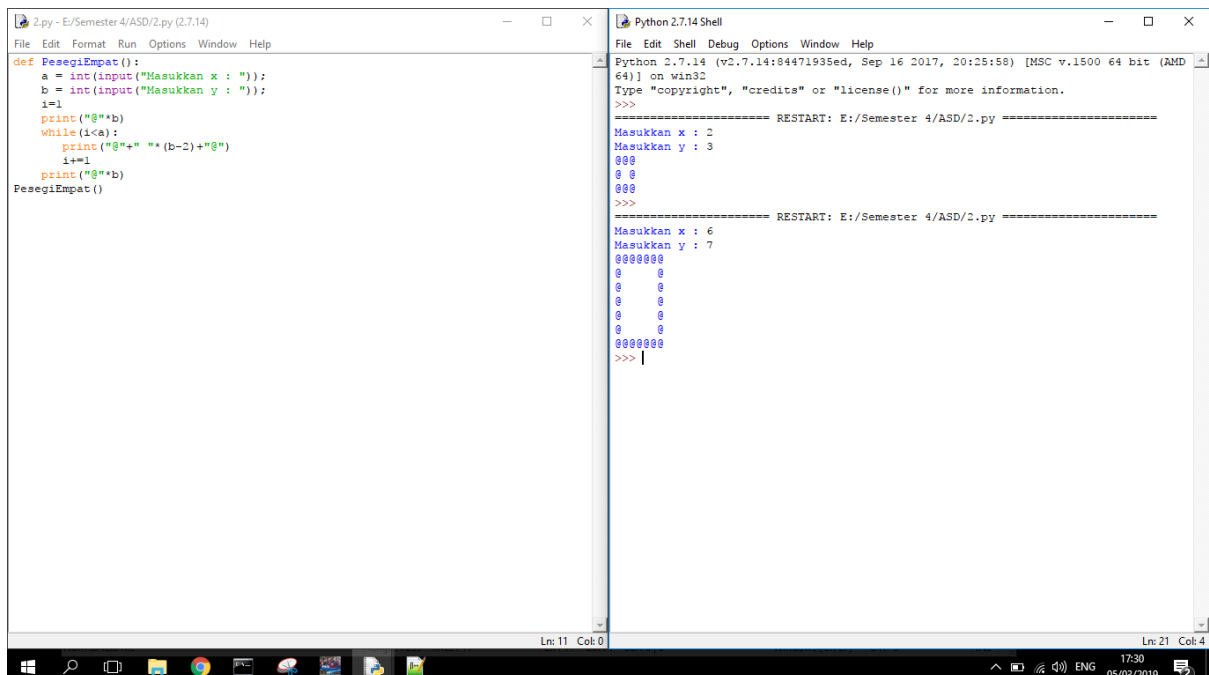
The screenshot shows a Python IDE with two windows. The left window, titled '1.py - E:/Semester 4/ASD/1.py (2.7.14)', contains the following code:

```
def cetakSiku():  
    x = int(input("Masukkan Angka : "));  
    for i in range(x+1):  
        print(" "*i);  
        i+=1;  
  
cetakSiku()
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the program after running. It displays a star pattern for the input '5':

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/1.py =====  
Masukkan Angka : 5  
  
*  
**  
***  
****  
*****  
>>> |
```

2.



The screenshot shows a Python IDE with two windows. The left window, titled '2.py - E:/Semester 4/ASD/2.py (2.7.14)', contains the following code:

```
def PesegiEmpat():  
    a = int(input("Masukkan x : "));  
    b = int(input("Masukkan y : "));  
    i=1  
    print("@"*b)  
    while (i<a):  
        print("@*+" "*(b-2)+"@")  
        i+=1  
    print("@"*b)  
PesegiEmpat()
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the program after running. It displays a diamond pattern for the inputs '2' and '3':

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/2.py =====  
Masukkan x : 2  
Masukkan y : 3  
@@@  
@ @  
@ @  
@@@  
  
===== RESTART: E:/Semester 4/ASD/2.py =====  
Masukkan x : 6  
Masukkan y : 7  
@@@@@@@  
@ @  
@ @  
@ @  
@ @  
@ @  
@@@@@@@  
>>> |
```

### 3. a.

The screenshot shows a Python IDE with two windows. The left window, titled '3a.py - E:/Semester 4/ASD/3a.py (2.7.14)', contains the following code:

```
def jumlahhurufvokal(a):  
    v="aiueoAIUEO"  
    vokal=0  
    jumlahhuruf=0  
    for i in a:  
        jumlahhuruf+=1  
        if i in v:  
            vokal+=1  
    return (vokal,jumlahhuruf)  
print(jumlahhurufvokal("surakarta"))
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/3a.py =====  
(4, 9)  
>>>
```

The taskbar at the bottom shows the Windows Start button, search icon, task view icon, and several application icons. The system tray on the right shows the date and time as 17:39 on 05/03/2019.

### b.

The screenshot shows a Python IDE with two windows. The left window, titled '3b.py - E:/Semester 4/ASD/3b.py (2.7.14)', contains the following code:

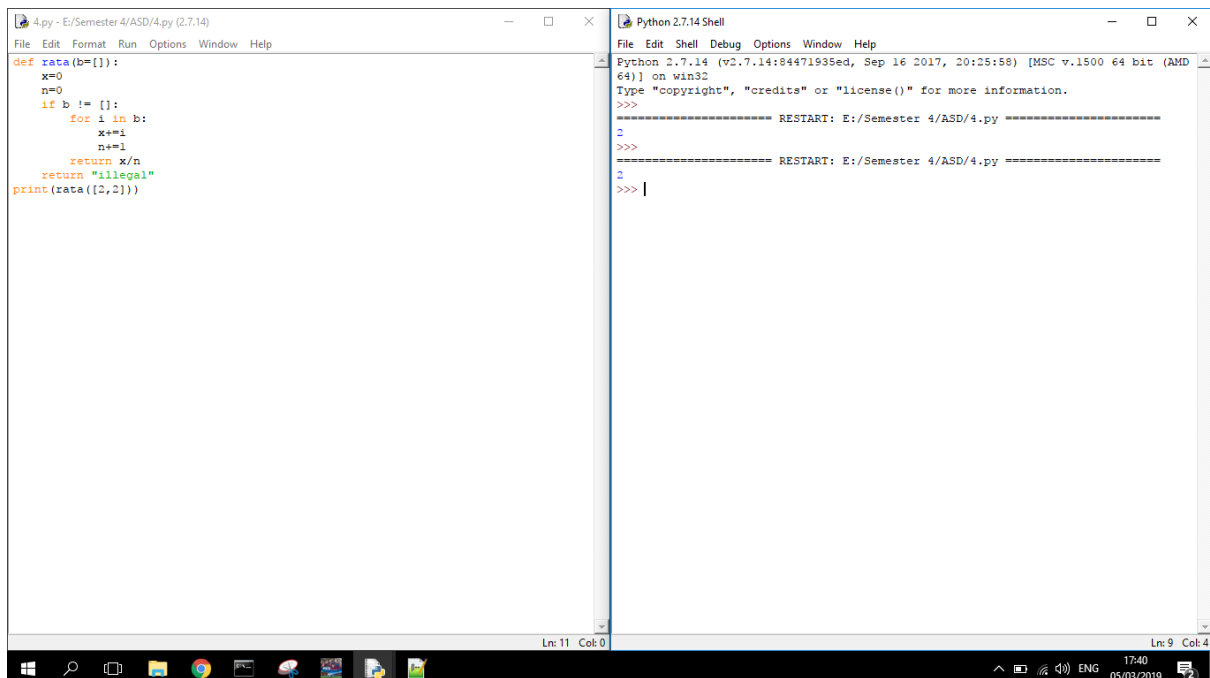
```
def jumlahhurufkonsonan(a):  
    v="bcdfghjklmnpqrstvwxyz"  
    konsonan=0  
    jumlahhuruf=0  
    for i in a:  
        jumlahhuruf+=1  
        if i in v:  
            konsonan+=1  
    return (konsonan,jumlahhuruf)  
print(jumlahhurufkonsonan("surakarta"))
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/3b.py =====  
(5, 9)  
>>>
```

The taskbar at the bottom shows the Windows Start button, search icon, task view icon, and several application icons. The system tray on the right shows the date and time as 17:39 on 05/03/2019.

4.



The screenshot shows a Python IDE with two windows. The left window, titled '4.py - E:/Semester 4/ASD/4.py (2.7.14)', contains the following code:

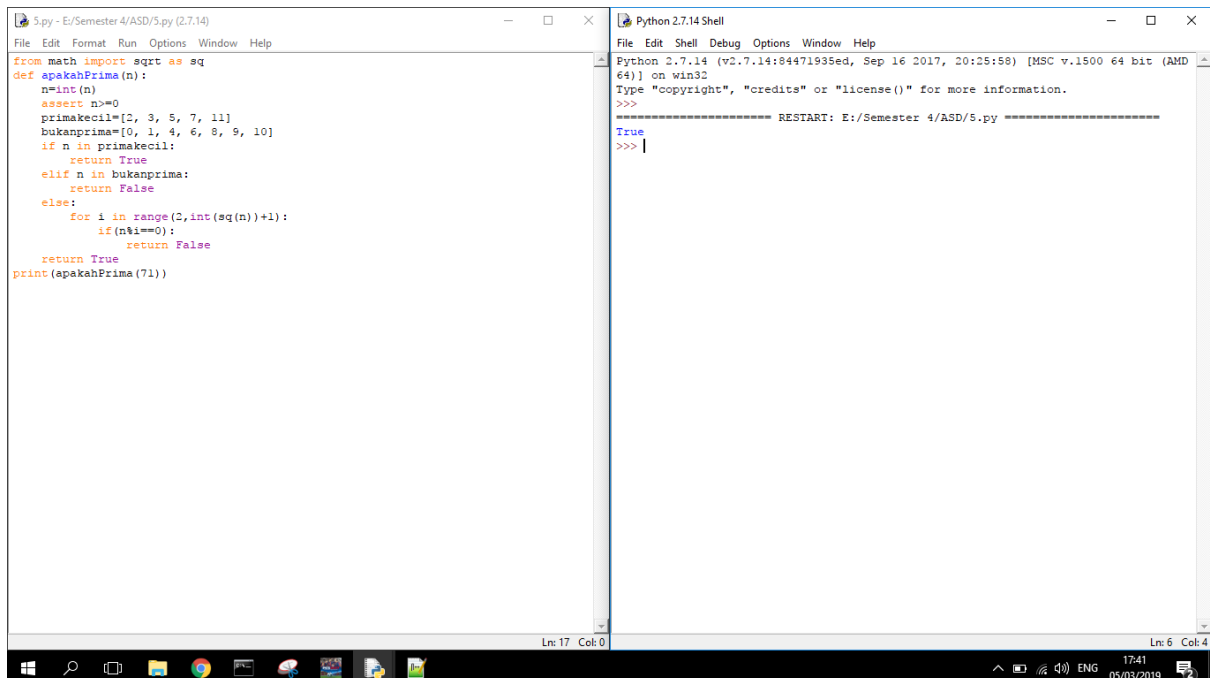
```
def rata(b=[]):  
    x=0  
    n=0  
    if b != []:  
        for i in b:  
            x+=i  
            n+=1  
        return x/n  
    return "illegal"  
print(rata([2,2]))
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/4.py =====  
>>>  
===== RESTART: E:/Semester 4/ASD/4.py =====  
2  
>>>  
2  
>>> |
```

The taskbar at the bottom shows the Windows Start button, search icon, task view icon, and several application icons. The system tray on the right shows the date and time as 17:40 on 05/03/2019.

5.



The screenshot shows a Python IDE with two windows. The left window, titled '5.py - E:/Semester 4/ASD/5.py (2.7.14)', contains the following code:

```
from math import sqrt as sq  
def apakahPrima(n):  
    n=int(n)  
    assert n>0  
    primakecil=[2, 3, 5, 7, 11]  
    bukanprima=[0, 1, 4, 6, 8, 9, 10]  
    if n in primakecil:  
        return True  
    elif n in bukanprima:  
        return False  
    else:  
        for i in range(2,int(sq(n))+1):  
            if (n%i==0):  
                return False  
        return True  
print(apakahPrima(71))
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/5.py =====  
True  
>>> |
```

The taskbar at the bottom shows the Windows Start button, search icon, task view icon, and several application icons. The system tray on the right shows the date and time as 17:41 on 05/03/2019.

6.

The screenshot shows a Python IDE with two windows. The left window, titled '6.py - E:/Semester 4/ASD/6.py (2.7.14)', contains the following code:

```
def bilanganprima():
    prima=list()
    for i in range(2,100):
        a = True
        for iter in prima:
            if(i%iter==0):
                a=False
                break
        if(a):
            print(i)
            prima.append(i)
bilanganprima()
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD
64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Semester 4/ASD/6.py =====
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
>>> |
```

The status bar at the bottom indicates 'Ln: 12 Col: 0' for the editor and 'Ln: 30 Col: 4' for the shell.

7.

The screenshot shows a Python IDE with two windows. The left window, titled '7.py - E:/Semester 4/ASD/7.py (2.7.14)', contains the following code:

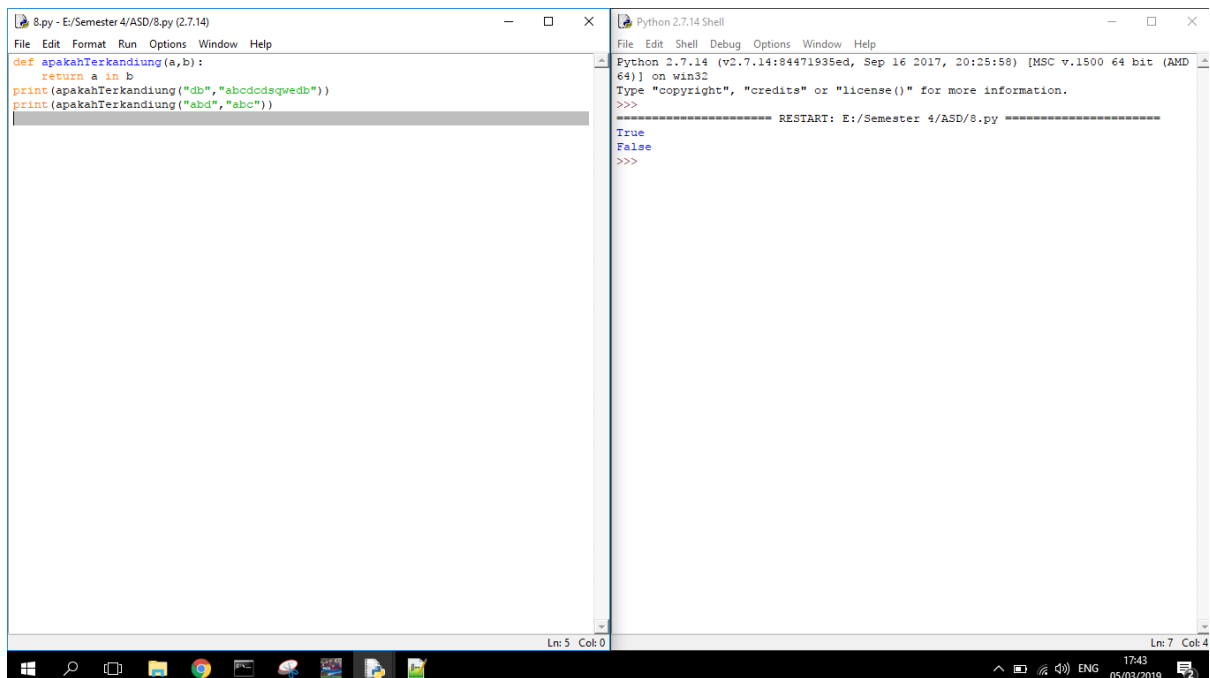
```
def faktorprima(n):
    prima=list()
    for i in range(2,n):
        a = True
        for iter in prima:
            if(i%iter==0):
                a=False
                break
        if a and n%i==0:
            prima.append(i)
    return prima
print(faktorprima(143))
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD
64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Semester 4/ASD/7.py =====
[11, 13]
>>> |
```

The status bar at the bottom indicates 'Ln: 11 Col: 16' for the editor and 'Ln: 6 Col: 4' for the shell.

8.



The screenshot shows a Python IDE with two windows. The left window, titled '8.py - E:/Semester 4/ASD/8.py (2.7.14)', contains the following code:

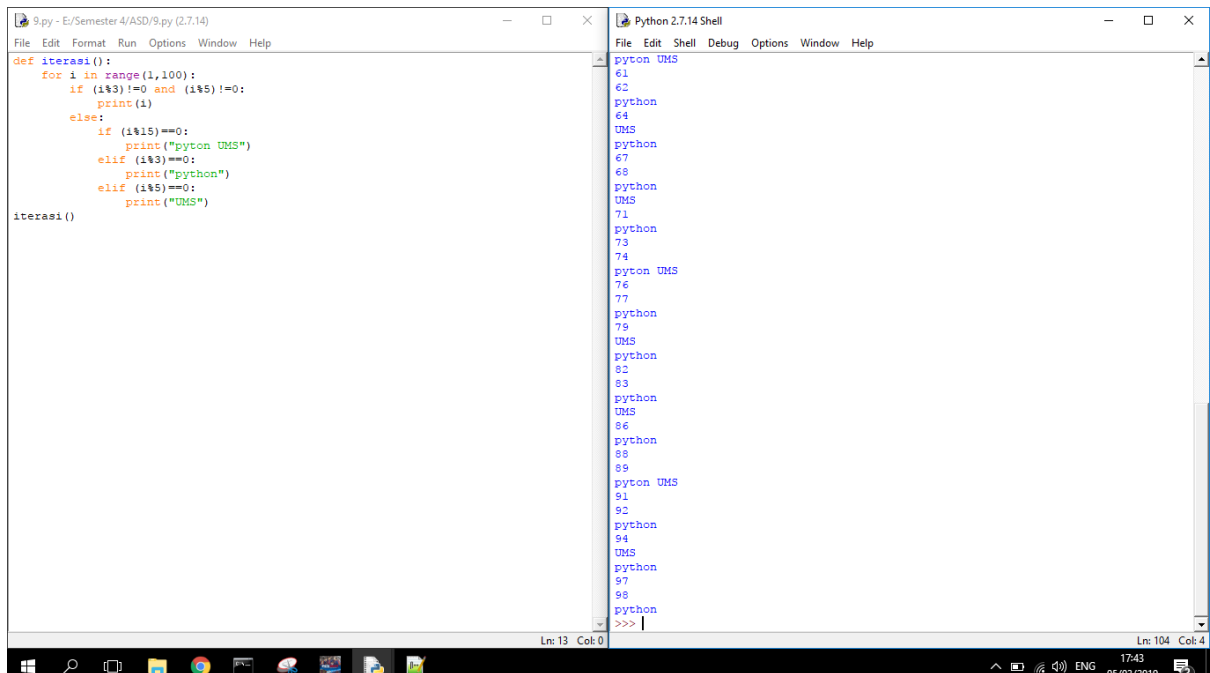
```
def apakahTerkandung(a,b):  
    return a in b  
print(apakahTerkandung("db","abcdodsqwedb"))  
print(apakahTerkandung("abd","abc"))
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the code:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/8.py =====  
True  
False  
>>>
```

The status bar at the bottom indicates 'Ln: 5 Col: 0' for the editor and 'Ln: 7 Col: 4' for the shell.

9.



The screenshot shows a Python IDE with two windows. The left window, titled '9.py - E:/Semester 4/ASD/9.py (2.7.14)', contains the following code:

```
def iterasi():  
    for i in range(1,100):  
        if (i%3)!=0 and (i%5)!=0:  
            print(1)  
        else:  
            if (i%15)==0:  
                print("pyton UMS")  
            elif (i%3)==0:  
                print("python")  
            elif (i%5)==0:  
                print("UMS")  
iterasi()
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the code:

```
pyton UMS  
61  
62  
python  
64  
UMS  
python  
67  
68  
python  
71  
UMS  
73  
74  
pyton UMS  
76  
77  
python  
79  
UMS  
python  
82  
83  
python  
85  
UMS  
86  
python  
88  
pyton UMS  
91  
92  
python  
94  
UMS  
python  
97  
98  
python  
>>>
```

The status bar at the bottom indicates 'Ln: 13 Col: 0' for the editor and 'Ln: 104 Col: 4' for the shell.

10.

The screenshot shows a Python IDE with two windows. The left window, titled '10.py - E:/Semester 4/ASD/10.py (2.7.14)', contains the following code:

```
def selesaikanABC(a,b,c):  
    a=float(a)  
    b=float(b)  
    c=float(c)  
    D=(b**2)-(4*a*c)  
    if D<0:  
        return "determinan negatif"  
    return "determinan positif"  
print(selesaikanABC(1,1,2))
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the program:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/10.py =====  
determinan negatif  
>>>
```

The taskbar at the bottom shows the Windows Start button, search icon, task view icon, and several application icons. The system tray on the right shows the date and time as 17:44 on 05/03/2019.

11.

The screenshot shows a Python IDE with two windows. The left window, titled '11.py - E:/Semester 4/ASD/11.py (2.7.14)', contains the following code:

```
def apakahKabisat(a):  
    if (a%400==0):  
        return True  
    if (a%100==0):  
        return False  
    if (a%4==0):  
        return True  
    return False  
print(apakahKabisat(100))
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the program:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/11.py =====  
False  
>>>
```

The taskbar at the bottom shows the Windows Start button, search icon, task view icon, and several application icons. The system tray on the right shows the date and time as 17:45 on 05/03/2019.

12.

The screenshot shows a Python IDE with two windows. The left window, titled '12.py - E:/Semester 4/ASD/12.py (2.7.14)', contains the following code:

```
import random
def permainan():
    a=random.randrange(0, 100)
    while(True):
        b=int(input("masukan angka: "))
        if(b>a):
            print("terlalu besar, coba lagi")
        elif(b<a):
            print("terlalu kecil, coba lagi")
        else:
            print("benar")
            break
    permainan()
permainan()
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD
64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Semester 4/ASD/12.py =====
masukan angka: 13
terlalu kecil, coba lagi
masukan angka: 101
terlalu besar, coba lagi
masukan angka: 99
terlalu besar, coba lagi
masukan angka: -1
terlalu kecil, coba lagi
masukan angka: 0
terlalu kecil, coba lagi
masukan angka: 100
terlalu besar, coba lagi
masukan angka: 58
terlalu kecil, coba lagi
masukan angka: |
```

13.

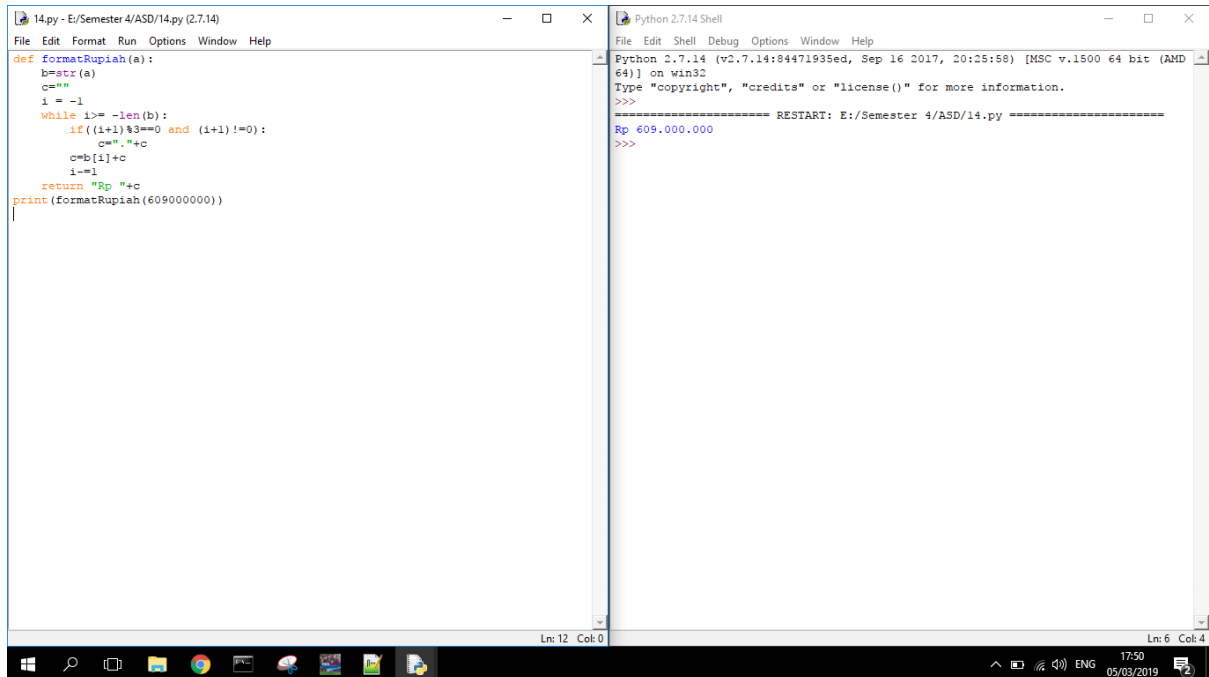
The screenshot shows a Python IDE with two windows. The left window, titled '13.py - E:/Semester 4/ASD/13.py (2.7.14)', contains the following code:

```
def katakan(a):
    x=("0":"","1":"Se","2":"Dua ","3":"Tiga ","4":"Empat ","5":"Lima ","6":"Enam ",
    y=(-1:"",-2:"puluh ",-3:"ratus ",-4:"ribu ",-5:"puluh ",6:"ratus ",7:"juta ",
    b=str(a)
    c=""
    i=-1
    while i>=-len(b):
        c=x[b[i]]+y[i]+c
        i=-1
    return c
print(katakan(11))
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD
64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Semester 4/ASD/13.py =====
Sepuluh Se
>>> |
```

14.



The image shows a screenshot of a Python IDE with two windows. The left window, titled '14.py - E:/Semester 4/ASD/14.py (2.7.14)', contains the following Python code:

```
def formatRupiah(a):  
    b=str(a)  
    c=""  
    i = -1  
    while i>= -len(b):  
        if ((i+1)%3==0 and (i+1)!=0):  
            c=","+c  
        c=b[i]+c  
        i-=1  
    return "Rp "+c  
print(formatRupiah(609000000))
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script after execution:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD  
64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/Semester 4/ASD/14.py =====  
Rp 609.000.000  
>>>
```

The Windows taskbar at the bottom shows the date as 05/03/2019 and the time as 17:50.