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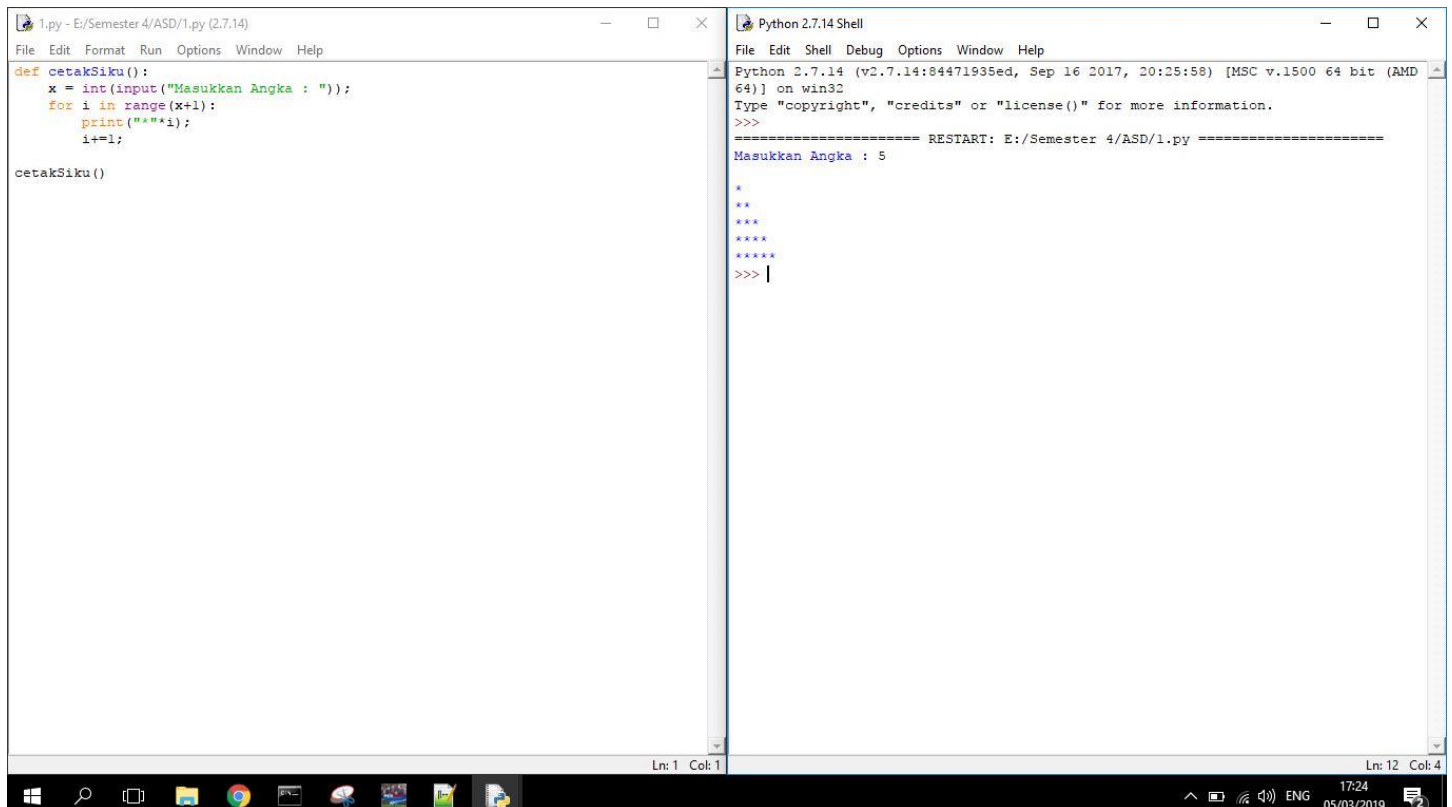
NIM : L200170128

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

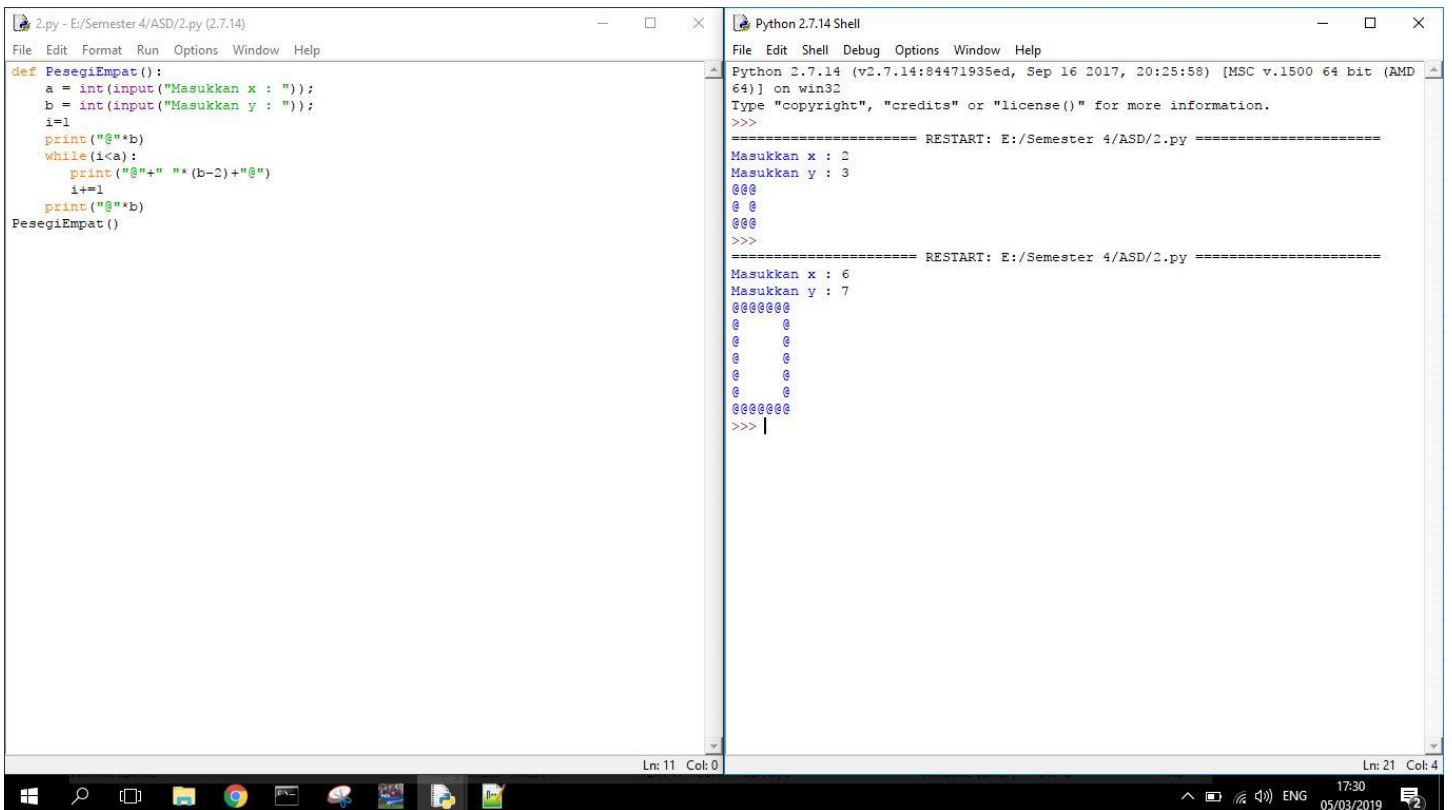
cetakSiku()
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the program after running. It displays the prompt 'Masukkan Angka : 5' followed by a star pattern:

```
*
**
***
****
*****
>>> |
```

The status bar at the bottom indicates the current line and column for both windows: 'Ln: 1 Col: 1' for the editor and 'Ln: 12 Col: 4' for the shell.

2.



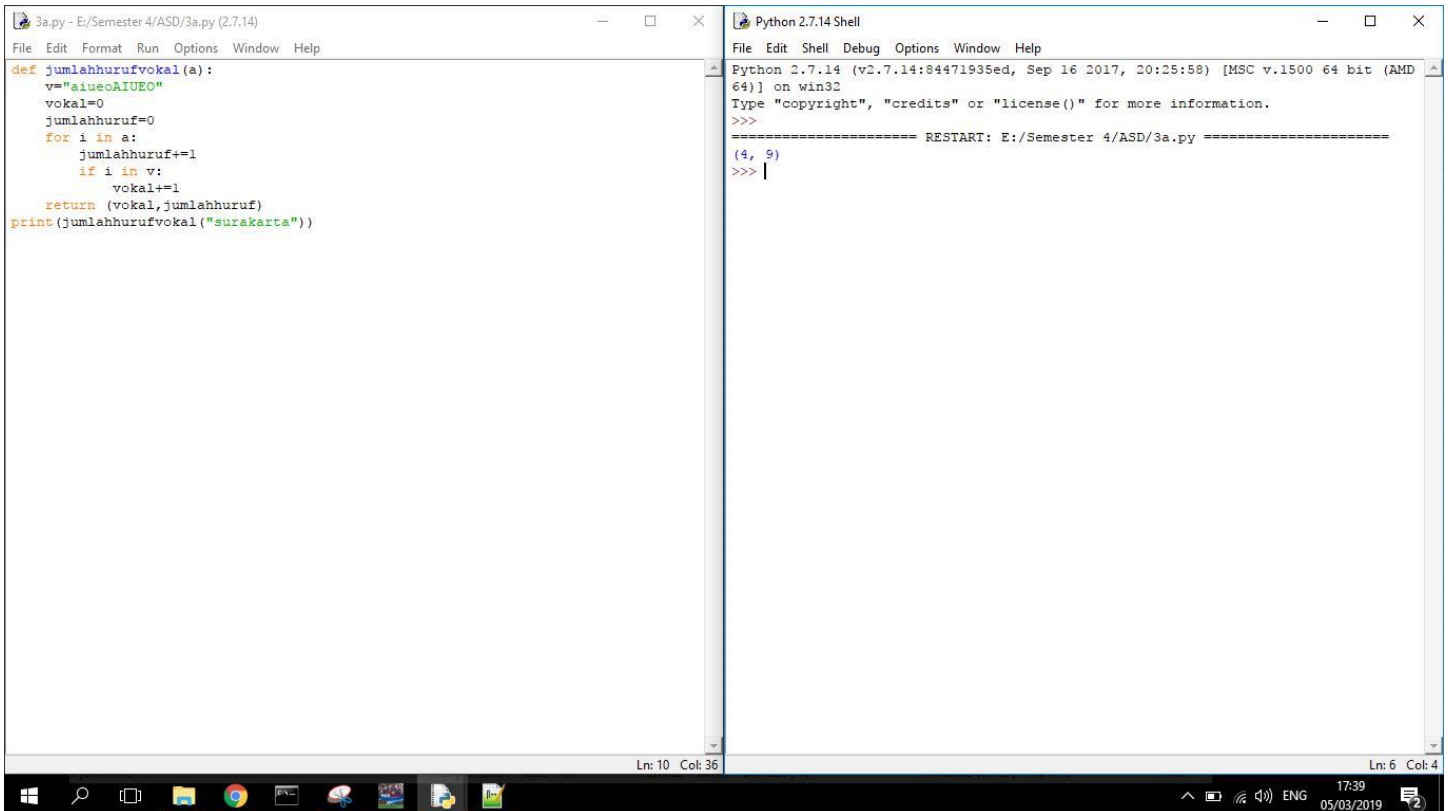
The screenshot shows a Python IDE with two windows. The left window, titled '2.py - E:/Semester 4/ASD/2.py (2.7.14)', contains the following code:

```
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 execution of the program. It displays the prompts for input, the execution of the function, and the resulting output, which is a diamond shape of asterisks:

```
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 execution of the program. It displays the execution of the function and the resulting output, which is a tuple containing the number of vowels and the total number of characters in the string:

```
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)  
>>> |
```

### 3.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:

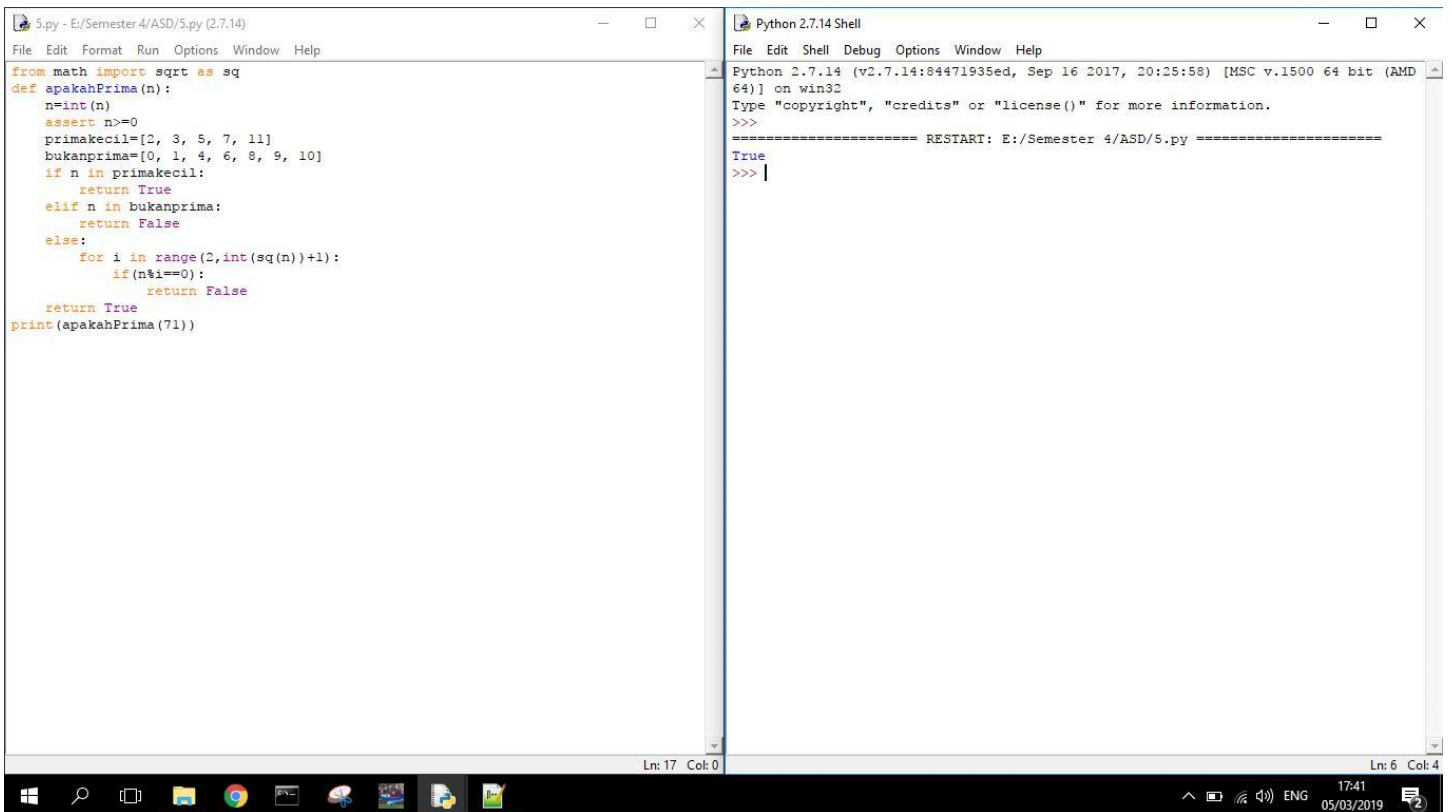
```
def rata(b=[]):  
    x=0  
    n=0  
    if b != []:  
        for i in b:  
            x+=i  
            n+=1  
        return x/n  
    return "illegal"  
print(rata([2,2]))
```

The right window, titled 'Python 2.7.14 Shell', shows the 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/4.py =====  
2  
>>>  
===== RESTART: E:/Semester 4/ASD/4.py =====  
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:

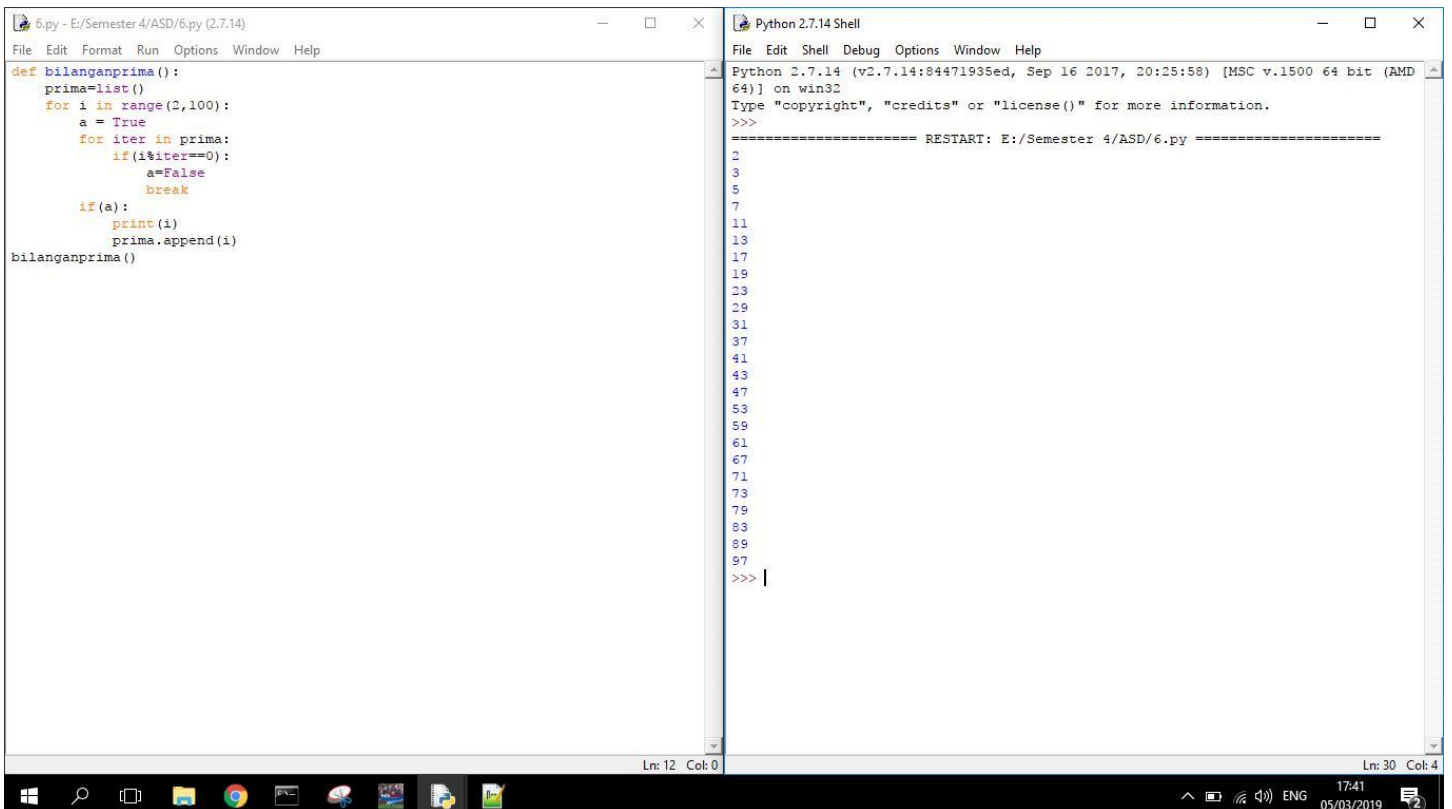
```
from math import sqrt as sq
def apakahPrima(n):
    n=int(n)
    assert n>=0
    primakecil=[2, 3, 5, 7, 11]
    bukanprima=[0, 1, 4, 6, 8, 9, 10]
    if n in primakecil:
        return True
    elif n in bukanprima:
        return False
    else:
        for i in range(2,int(sq(n))+1):
        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

The right window, titled 'Python 2.7.14 Shell', shows the 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/5.py =====
True
>>> |
```

The taskbar at the bottom shows the Windows Start button, search icon, and several application icons. The system clock indicates 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 taskbar at the bottom shows the Windows Start button, search icon, and several application icons. The system clock indicates 17:41 on 05/03/2019.

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 taskbar at the bottom shows the Windows Start button, search icon, and several application icons. The system clock indicates 17:42 on 05/03/2019.

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","abcdcdsqwedb"))
print(apakahTerkandung("abd","abc"))
```

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/8.py =====
True
False
>>>
```

The taskbar at the bottom shows the Windows Start button, search icon, and several application icons. The system clock indicates 17:43 on 05/03/2019.

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(i)
        else:
            if (i%15)==0:
                print("python UMS")
            elif (i%3)==0:
                print("python")
            elif (i%5)==0:
                print("UMS")
            print("UMS")
iterasi()
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script. It displays a sequence of 'python' and 'UMS' strings, corresponding to the logic in the script. The output is as follows:

```
python UMS
61
62
python
64
UMS
python
67
68
python
UMS
71
python
73
74
python UMS
76
77
python
79
UMS
python
82
83
python
UMS
86
python
88
89
python UMS
91
92
python
94
UMS
python
97
98
python
>>> |
```

The status bar at the bottom indicates 'Ln: 13 Col: 0' for the left window and 'Ln: 104 Col: 4' for the right window. The system tray shows the time as 17:43 on 05/03/2019.

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:

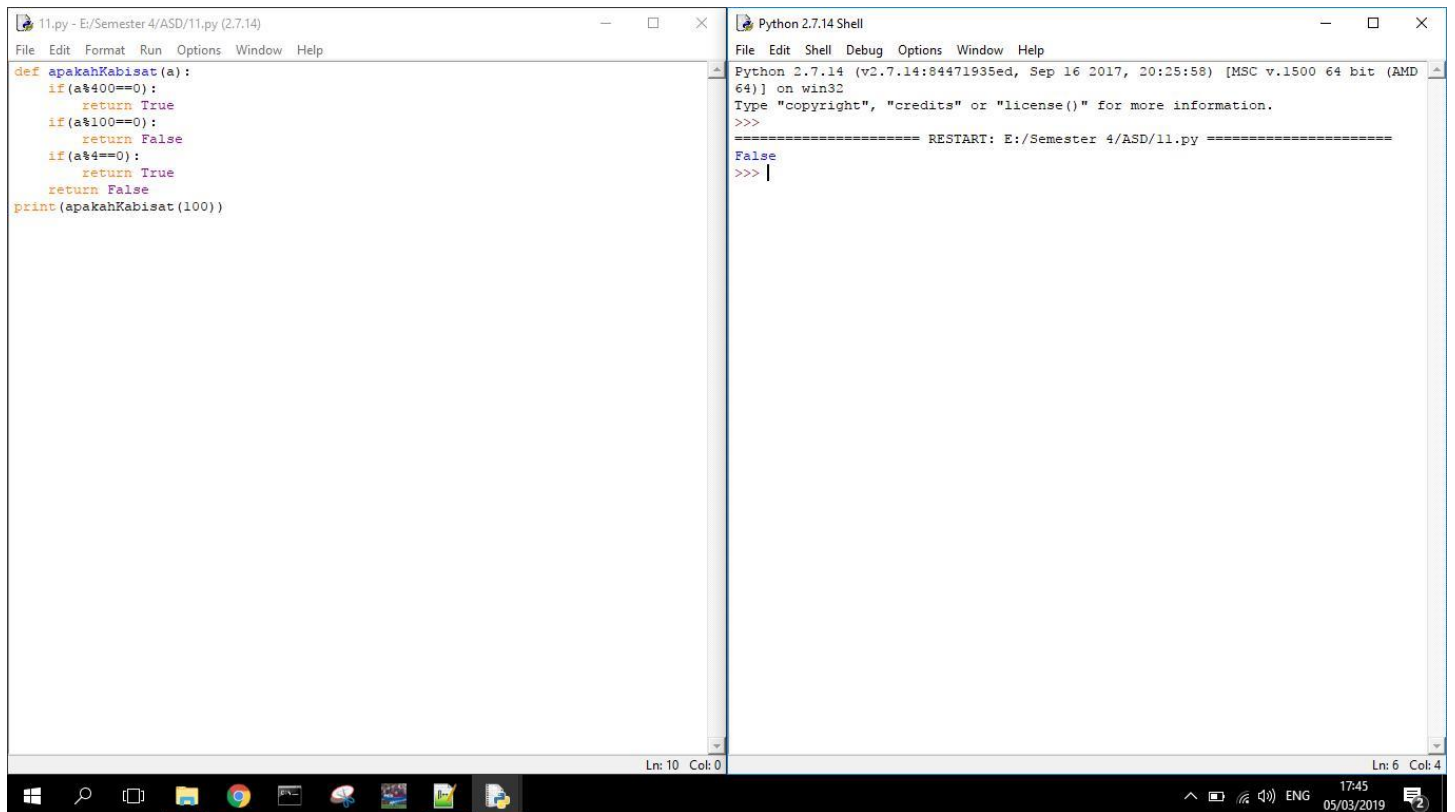
```
def selesaikanABC(a,b,c):
    a=float(a)
    b=float(b)
    c=float(c)
    D=(b**2)-(4*a*c)
    if D<0:
        return "determinan negatif"
    return "determinan positif"
print(selesaikanABC(1,1,2))
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script. It displays the following text:

```
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 status bar at the bottom indicates 'Ln: 10 Col: 0' for the left window and 'Ln: 6 Col: 4' for the right window. The system tray shows the 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:

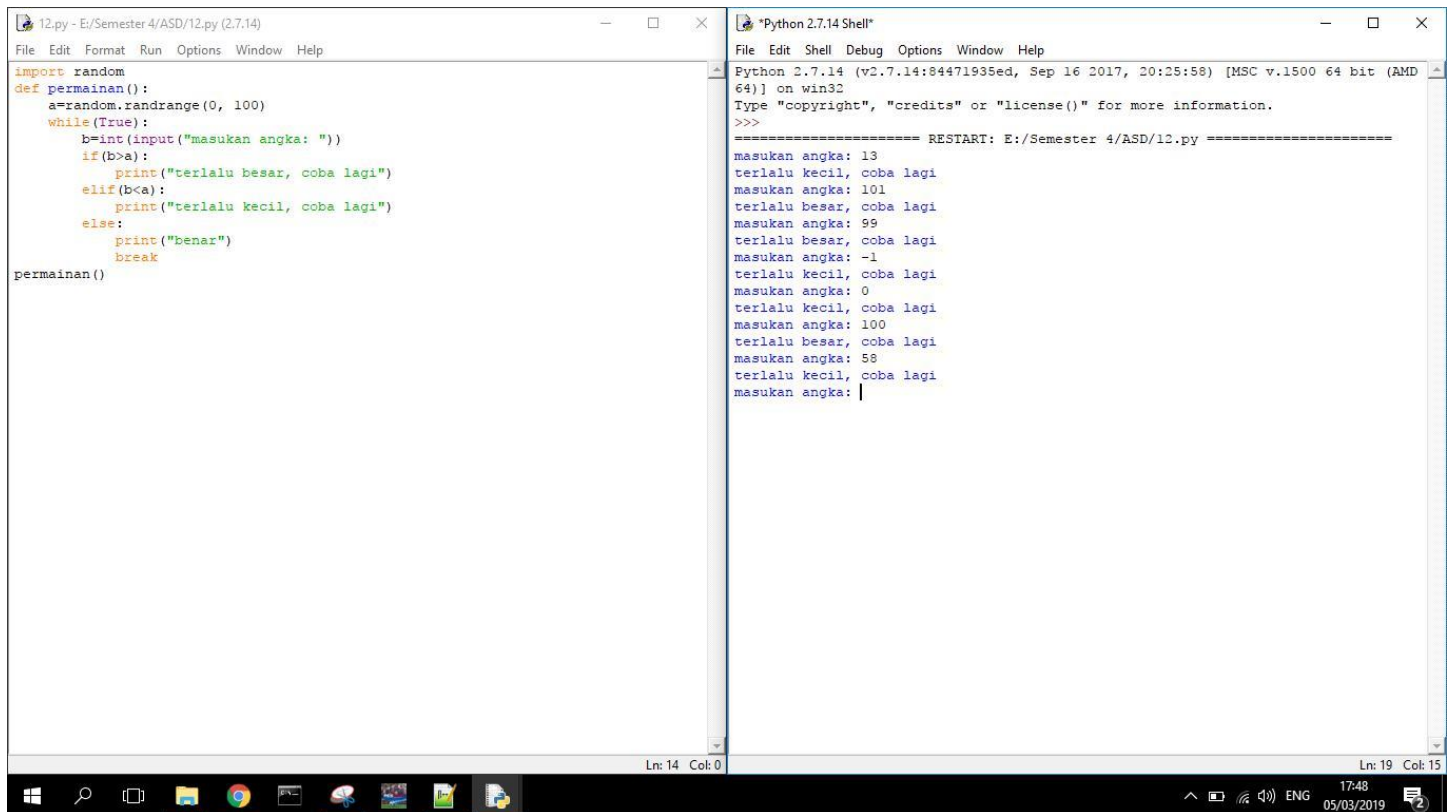
```
def apakahKabisat(a):  
    if(a%400==0):  
        return True  
    if(a%100==0):  
        return False  
    if(a%4==0):  
        return True  
    return False  
print(apakahKabisat(100))
```

The right window, titled 'Python 2.7.14 Shell', shows the execution of the code. It displays the Python version and architecture, followed by a restart message and the output of the function:

```
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, and several application icons. The system clock indicates 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()
```

The right window, titled 'Python 2.7.14 Shell', shows the execution of the code. It displays the Python version and architecture, followed by a restart message and the output of the game loop:

```
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: |
```

The taskbar at the bottom shows the Windows Start button, search icon, and several application icons. The system clock indicates 17:48 on 05/03/2019.



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 ","7":"Tujuh ","8":"Delapan ","9":"Sembilan ","10":"Sepuluh ","11":"Belas"}
    y={"-1":"","-2":"puluh ","-3":"ratus ","-4":"ribu ","-5":"puluh ","6":"ratus ","7":"juta ","8":"miliar "}
    b=str(a)
    c=""
    i=-1
    while i>= -len(b):
        c=x[b[i]]+y[i]+c
        i=i-1
    return c
print(katakan(10))
```

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 (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\Semester 4\ASD\13.py =====
Sepuluh
>>>
```

14.

The screenshot shows a Python IDE with two windows. The left window, titled '14.py - E:\Semester 4\ASD\14.py (2.7.14)', contains the following 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=i-1
    return "Rp "+c
print(formatRupiah(609000000))
```

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 (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\Semester 4\ASD\14.py =====
Rp 609.000.000
>>>
```