

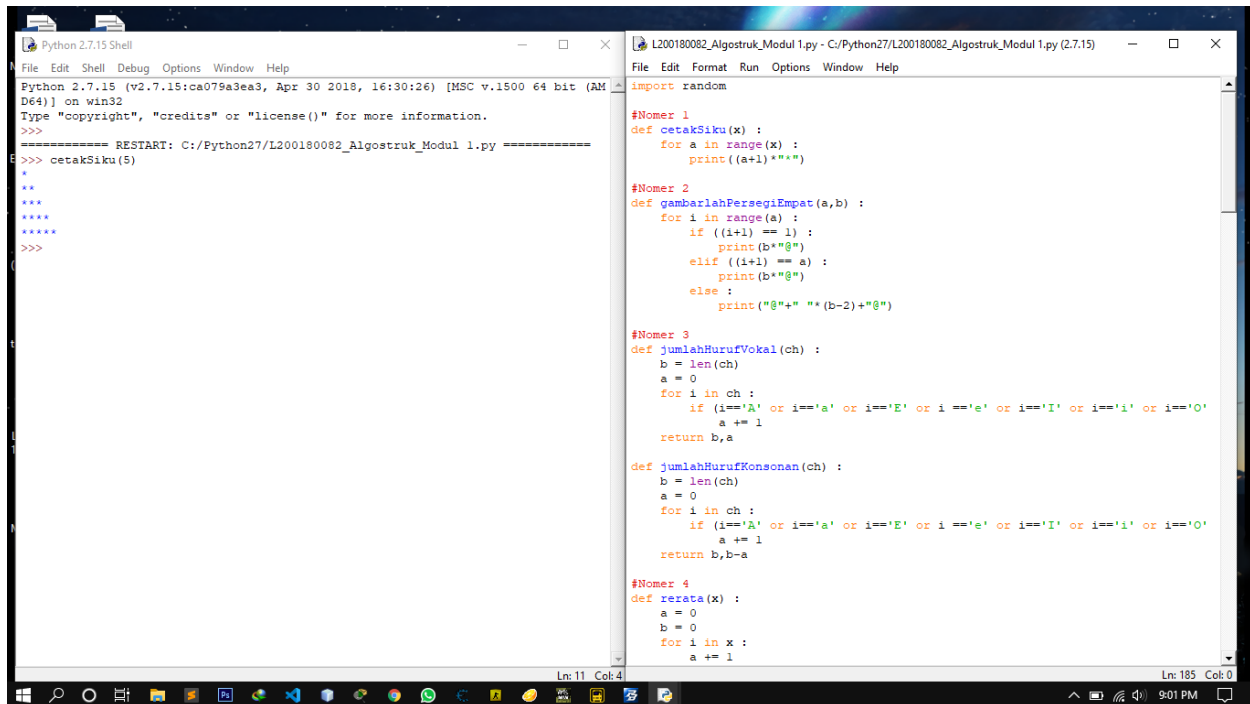
Nama : Alif Al Amin

NIM : L200180082

Kelas : C

Tugas Modul 1

1.



```
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> cetakSiku(5)
*
**
***
****
*****
>>>

L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help
import random

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

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

#Nomer 3
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 i=='O' or i=='o'):
            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 i=='O' or i=='o'):
            a += 1
    return b,b-a

#Nomer 4
def rerata(x):
    a = 0
    b = 0
    for i in x:
        a += 1
```

2.

```
Python 2.7.15 Shell
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> gambarlahPersegiEmpat(4,5)
00000
0 0
0 0
00000
>>>

L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help
import random

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

#Nomer 2
def gambarlahPersegiEmpat(a,b) :
    for i in range(a) :
        if ((i+1) == 1) :
            print(b*"0")
        elif ((i+1) == a) :
            print(b*"0")
        else :
            print("0"+" "*(b-2)+"0")

#Nomer 3
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 i=='O' or i=='o') :
            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 i=='O' or i=='o') :
            a += 1
    return b,b-a

#Nomer 4
def rerata(x) :
    a = 0
    b = 0
    for i in x :
        a += 1
```

3.

```
Python 2.7.15 Shell
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> k = jumlahHurufVokal("Surakarta")
>>> k
(9, 4)
>>> k = jumlahHurufKonsonan("Surakarta")
>>> k
(9, 5)
>>> |

L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help
import random

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

#Nomer 2
def gambarlahPersegiEmpat(a,b) :
    for i in range(a) :
        if ((i+1) == 1) :
            print(b*"0")
        elif ((i+1) == a) :
            print(b*"0")
        else :
            print("0"+" "*(b-2)+"0")

#Nomer 3
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 i=='O' or i=='o') :
            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 i=='O' or i=='o') :
            a += 1
    return b,b-a

#Nomer 4
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)

#Nomer 5
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")
```

4.

```
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> rerata([1,2,3,4,5])
3.0
>>> g = [3,4,5,4,3,4,5,2,2,10,11,23]
>>> rerata(g)
6.333333333333333
>>>

L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help

#Nomer 4
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)

#Nomer 5
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")

#Nomer 6
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)

#Nomer 7
def faktorPrima(x):
    listprima=[]
    prima=2
    while prima<=x:
        if x%prima==0:
            x/=prima
            listprima.append(prima)
```

5.

```
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> apakahPrima(17)
YA
>>> apakahPrima(97)
YA
>>> apakahPrima(123)
TIDAK
>>>

L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help

##Nomer 5
def apakahPrima(n):
    n = int(n)
    assert n >= 0
    primaKecil = [2,3,5,7,11]
    bknPrKecil = [0,1,4,6,8,9,10]
    if n in primaKecil:
        return True
    elif n in bknPrKecil:
        return False
    else:
        x = 0
        for i in range(n):
            if n % (i+1) == 0:
                x += 1
        if x == 2:
            print("YA")
        else:
            print("TIDAK")

#Nomer 6
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)

#Nomer 7
def faktorPrima(x):
    listprima=[]
    prima=2
    while prima<=x:
        if x%prima==0:
            x/=prima
            listprima.append(prima)
        else:
```

6.

The image shows two windows from a Windows environment. The left window is a 'Python 2.7.15 Shell' with the following content:

```
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.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
107
109
113
127
131
137
139
```

The right window is an IDE titled 'L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)*' containing the following code:

```
#Nomer 6
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)

#Nomer 7
def faktorPrima(x):
    listprima=[]
    prima=2
    while prima<=x:
        if x%prima==0:
            x/=prima
            listprima.append(prima)
        else:
            prima+=1
    return listprima

#Nomer 8
def apakahTerkandung(a,b) :
    if a in b :
        return True
    else :
        return False

#Nomer 9
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 :
            :
```

7.

The image shows two windows from a Windows environment. The left window is a 'Python 2.7.15 Shell' with the following content:

```
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 2, 3, 5]
>>> faktorPrima(19)
[19]
>>>
```

The right window is an IDE titled 'L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)' containing the following code:

```
#Nomer 7
def faktorPrima(x):
    listprima=[]
    prima=2
    while prima<=x:
        if x%prima==0:
            x/=prima
            listprima.append(prima)
        else:
            prima+=1
    return listprima

#Nomer 8
def apakahTerkandung(a,b) :
    if a in b :
        return True
    else :
        return False

#Nomer 9
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)

#Nomer 10
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 berlaina
```

8.

The image shows two windows from a Windows desktop. The left window is a 'Python 2.7.15 Shell' with the following code and output:

```
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> h = "do"
>>> k = "Indonesia tanah air beta"
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung("pusaka",k)
False
>>>
```

The right window is a script editor for 'L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)'. It contains the following code:

```
#Nomer 8
def apakahTerkandung(a,b) :
    if a in b :
        return True
    else :
        return False

#Nomer 9
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)

#Nomer 10
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 berlaina")
    elif res < 0 :
        print("Determinannya negatif. Persamaan tidak mempunyai akar real.")

#Nomer 11
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
```

9.

The image shows the same two windows as before, but the left window now shows the execution of the 'ums' function:

```
>>> ums()
1
2 Python
3 UMS
4 Python
5
6 Python
7 UMS
8
9 Python
10 UMS
11
12 Python
13 UMS
14
15 Python
16 UMS
17
18 Python
19 UMS
20
21 Python
22 UMS
23
24 Python
25 UMS
26
27 Python
28 UMS
29
30 Python UMS
31
32 Python
33
34
```

The right window is the same as in the previous image, showing the code for the 'ums' function and other functions.

10.

```
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> selesaikanABC(1,2,3)
Determinannya negatif. Persamaan tidak mempunyai akar real.
>>>

L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help
#Nomer 10
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 berlaina")
    elif res < 0 :
        print("Determinannya negatif. Persamaan tidak mempunyai akar real.")

#Nomer 11
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

#Nomer 12
def tebak():
    a = random.randrange(1,101)
    b = -1
    n = 0
    print("Permainan tebak angkat.")
    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")

Ln: 7 Col: 4
Ln: 76 Col: 20
9:45 PM
```

11.

```
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> apakahKabisat()
Masukkan Tahun : 1896
True
>>> apakahKabisat()
Masukkan Tahun : 1897
False
>>> apakahKabisat()
Masukkan Tahun : 1900
False
>>> apakahKabisat()
Masukkan Tahun : 2000
True
>>> apakahKabisat()
Masukkan Tahun : 2004
True
>>> apakahKabisat()
Masukkan Tahun : 2100
False
>>> apakahKabisat()
Masukkan Tahun : 2400
True
>>>

L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help
#Nomer 11
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

#Nomer 12
def tebak():
    a = random.randrange(1,101)
    b = -1
    n = 0
    print("Permainan tebak angkat.")
    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

#Nomer 13
def katakan(x):
    satuan = [' ', 'satu', 'dua', 'tiga', 'empat', 'lima', 'enam', 'tujuh', 'del
    hasil = ""
    if x <= 0:
        hasil += 'Bilangan Haruslah Positif\ndan Bilangan Asli'
    elif x < 12 :
        hasil += satuan[x]

Ln: 26 Col: 4
Ln: 76 Col: 20
9:47 PM
```

12.

The screenshot shows two windows from a Windows desktop. The left window is a Python 2.7.15 Shell with the following content:

```
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> tebak()
Permainan tebak angkat.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak
Masukkan tebakan ke-1:> 50
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-2:> 75
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-3:> 58
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-4:> 70
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-5:> 90
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-6:> 87
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-7:> 84
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-8:> 85
Ya. Anda benar.
>>>
```

The right window is a script editor showing the code for the game and a number-to-words converter:

```
L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help

def tebak() :
    a = random.randrange(1,101)
    b = -1
    n = 0
    print("Permainan tebak angkat.")
    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

#Nomer 13
def katakan(x):
    satuan = [' ', 'satu', 'dua', 'tiga', 'empat', 'lima', 'enam', 'tujuh', 'delapan', 'sembilan', 'sepuluh', 'sebelas', 'dua belas', 'tiga belas', 'empat belas', 'lima belas', 'enam belas', 'tujuh belas', 'delapan belas', 'sembilan belas']
    hasil = ""
    if x <= 0:
        hasil += 'Bilangan Haruslah Positif'
    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 < 100000000:
        hasil += katakan(int(x/1000000)) + " juta " + katakan(x%1000000)
    elif x >= 1000000000:
        hasil += "milyar " + katakan(int(x/1000000000)) + " " + katakan(x%1000000000)
    return hasil
```

13.

The screenshot shows two windows from a Windows desktop. The left window is a Python 2.7.15 Shell with the following content:

```
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> katakan(3125750)
'tiga juta seratus dua puluh lima ribu tujuh ratus lima puluh'
>>>
```

The right window is a script editor showing the code for the number-to-words converter and a Rupiah formatting function:

```
L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help

#Nomer 13
def katakan(angka):
    satuan = ["satu", "dua", "tiga", "empat", "lima", "enam", "tujuh", "delapan", "sembilan", "sepuluh", "sebelas", "dua belas", "tiga belas", "empat belas", "lima belas", "enam belas", "tujuh belas", "delapan belas", "sembilan belas"]
    angka = '{:,}'.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])

#Nomer 14
def formatRupiah(a):
    a = list(str(a))
    b = len(a)
    if b > 3:
        a[b-3] = "."
    return "".join(a)
```

14.

```
Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/L200180082_Algostruk_Modul 1.py =====
>>> formatRupiah(1500)
Rp 1.500
>>> formatRupiah(2560000)
Rp 2.560.000
>>>

L200180082_Algostruk_Modul 1.py - C:/Python27/L200180082_Algostruk_Modul 1.py (2.7.15)
File Edit Format Run Options Window Help
    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])

#Nomer 14
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)

Ln: 9 Col: 4
Ln: 163 Col: 0
10:07 PM
```