

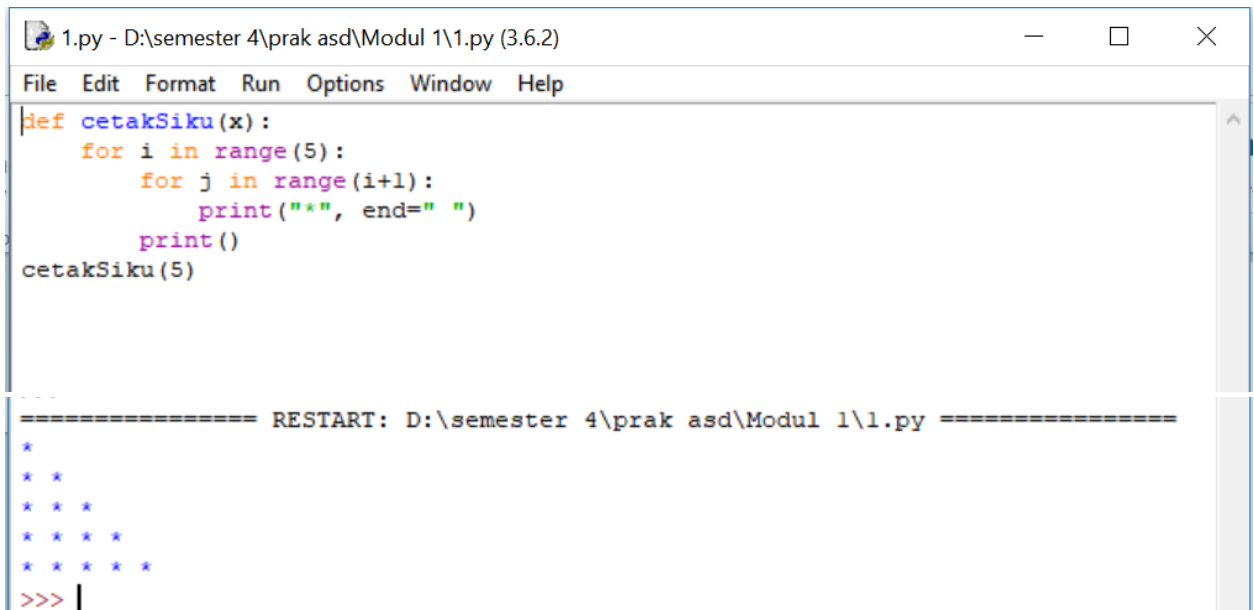
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## MODUL 1

1.

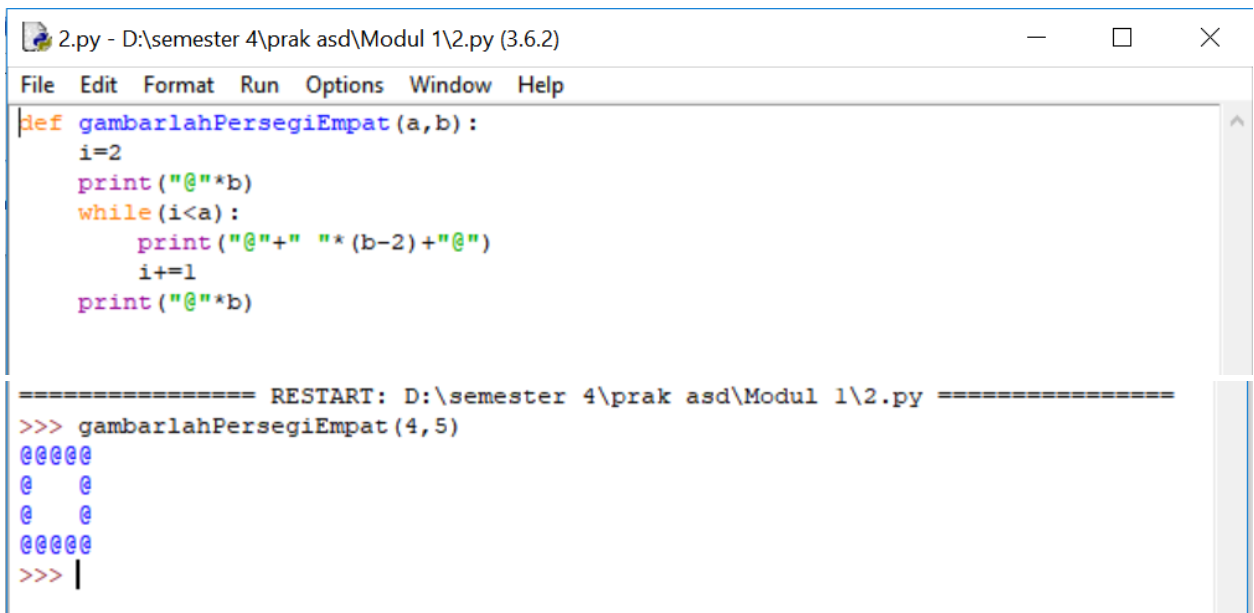


```
1.py - D:\semester 4\prak asd\Modul 1\1.py (3.6.2)
File Edit Format Run Options Window Help

def cetakSiku(x):
    for i in range(5):
        for j in range(i+1):
            print("*", end=" ")
        print()
cetakSiku(5)

===== RESTART: D:\semester 4\prak asd\Modul 1\1.py =====
*
* *
* * *
* * * *
* * * * *
>>> |
```

2.



```
2.py - D:\semester 4\prak asd\Modul 1\2.py (3.6.2)
File Edit Format Run Options Window Help

def gambarlahPersegiEmpat(a,b):
    i=2
    print("@"*b)
    while(i<a):
        print("@"+" "*(b-2)+"@")
        i+=1
    print("@"*b)

===== RESTART: D:\semester 4\prak asd\Modul 1\2.py =====
>>> gambarlahPersegiEmpat(4,5)
@@@@@
@  @
@  @
@@@@@
>>> |
```

3. a.

```
3(a).py - D:\semester 4\prak asd\Modul 1\3(a).py (3.6.2)
File Edit Format Run Options Window Help
def jumlahhurufvokal(a):
    v="aiueoAIUEO"
    vokal=0
    jumlahhuruf=0
    for i in a:
        jumlahhuruf+=1
        if i in v:
            vokal+=1
    return (jumlahhuruf,vokal)

===== RESTART: D:\semester 4\prak asd\Modul 1\3(a).py =====
>>> k = jumlahhurufvokal('Surakarta')
>>> k
(9, 4)
>>> |
```

b.

```
3(b).py - D:\semester 4\prak asd\Modul 1\3(b).py (3.6.2)
File Edit Format Run Options Window Help
def jumlahhurufkonsonan(a):
    v="BCDFGHJKLMNPQRSTVWXYZbcdfghjklmnpqrstvwxyz"
    konsonan=0
    jumlahhuruf=0
    for i in a:
        jumlahhuruf+=1
        if i in v:
            konsonan+=1
    return (jumlahhuruf,konsonan)

===== RESTART: D:\semester 4\prak asd\Modul 1\3(b).py =====
>>> k = jumlahhurufkonsonan('Surakarta')
>>> k
(9, 5)
>>> |
```

4.

```
4.py - D:\semester 4\prak asd\Modul 1\4.py (3.6.2)
File Edit Format Run Options Window Help
def rerata(b=[]):
    x=0
    n=0
    if b != []:
        for i in b:
            x+=i
            n+=1
        return x/n

===== RESTART: D:\semester 4\prak asd\Modul 1\4.py =====
>>> rerata([1,2,3,4,5])
3.0
>>> g = [3,4,5,4,3,4,5,2,2,10,11,13]
>>> rerata(g)
5.5
>>>
```

5.

```
5.py - D:\semester 4\prak asd\Modul 1\5.py (3.6.2)
File Edit Format Run Options Window Help
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

===== RESTART: D:\semester 4\prak asd\Modul 1\5.py =====
>>> apakahPrima(17)
True
>>> apakahPrima(97)
True
>>> apakahPrima(123)
False
>>> |
```

6.

```
6.py - D:\semester 4\prak asd\Modul 1\6.py (3.6.2)
File Edit Format Run Options Window Help
def cetakbilanganprima():
    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)
    cetakbilanganprima()

===== RESTART: D:\semester 4\prak asd\Modul 1\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
>>> |
```

7.

```
7.py - D:\semester 4\prak asd\Modul 1\7.py (3.6.2)
File Edit Format Run Options Window Help

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

===== RESTART: D:\semester 4\prak asd\Modul 1\7.py =====
>>> faktorprima(10)
[2, 5]
>>> faktorprima(120)
[2, 3, 5]
>>> faktorprima(19)
[]
>>> |
```

8.

```
8.py - D:\semester 4\prak asd\Modul 1\8.py (3.6.2)
File Edit Format Run Options Window Help

def apakahTerkandung(a,b):
    return a in b

===== RESTART: D:\semester 4\prak asd\Modul 1\8.py =====
>>> h = 'do'
>>> k = 'Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>> |
```

9.

```
*9.py - D:\semester 4\prak asd\Modul 1\9.py (3.6.2)*
File Edit Format Run Options Window Help

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

===== RESTART: D:\semester 4\prak asd\Modul 1\9.py =====
1
2
python
4
UMS
python
7
8
python
UMS
11
python
13
14
pyton UMS
16
17
python
19
UMS
python
22
23
python
UMS
26
python
28
29
pyton UMS
31
32
python
34
UMS
python
37
38
```

10.

```
10.py - D:\semester 4\prak asd\Modul 1\10.py (3.6.2)
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 "determinan negatif"
    return "determinan positif"

===== RESTART: D:\semester 4\prak asd\Modul 1\10.py =====
>>> selesaikanABC(1,2,3)
'determinan negatif'
>>> |
```

11.

```
11.py - D:\semester 4\prak asd\Modul 1\11.py (3.6.2)
File Edit Format Run Options Window Help
tahun=int(input("Masukkan Tahun untuk mengetahui kabisat atau tidak:"))
if(tahun%4==0 and tahun%100!=0 or tahun%400==0):
    print ("True")
else:
    print ("False")

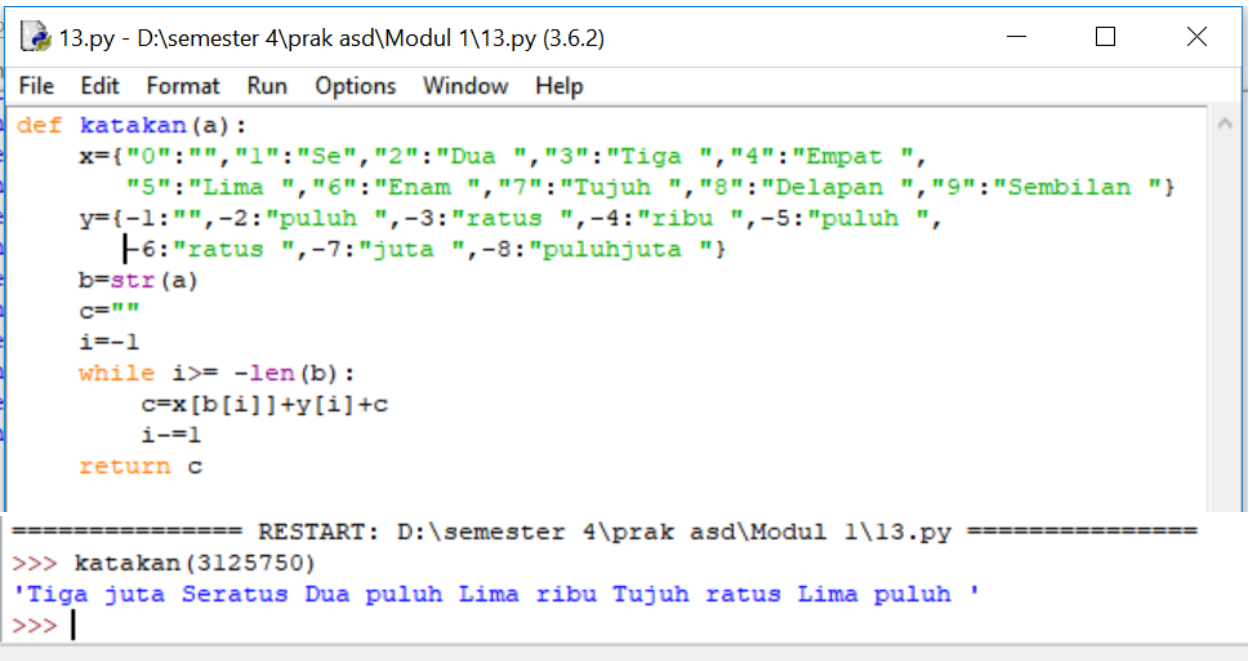
===== RESTART: D:\semester 4\prak asd\Modul 1\11.py =====
Masukkan Tahun untuk mengetahui kabisat atau tidak:2004
True
```

12.

```
12.py - D:\semester 4\prak asd\Modul 1\12.py (3.6.2)
File Edit Format Run Options Window Help
import random
def game():
    a=random.randrange(0, 100)
    print ("permainan tebak angka")
    print ("Saya menyimpan sebuah angka bulat antara 1 sampai 100. coba tebak.")
    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
game|()
```

```
===== RESTART: D:\semester 4\prak asd\Modul 1\12.py =====
permainan tebak angka
Saya menyimpan sebuah angka bulat antara 1 sampai 100. coba tebak.
masukan angka: 50
terlalu kecil, coba lagi
masukan angka: 60
terlalu besar, coba lagi
masukan angka: 55
terlalu kecil, coba lagi
masukan angka: 57
terlalu kecil, coba lagi
masukan angka: 58
terlalu kecil, coba lagi
masukan angka: 59
benar
```

13.

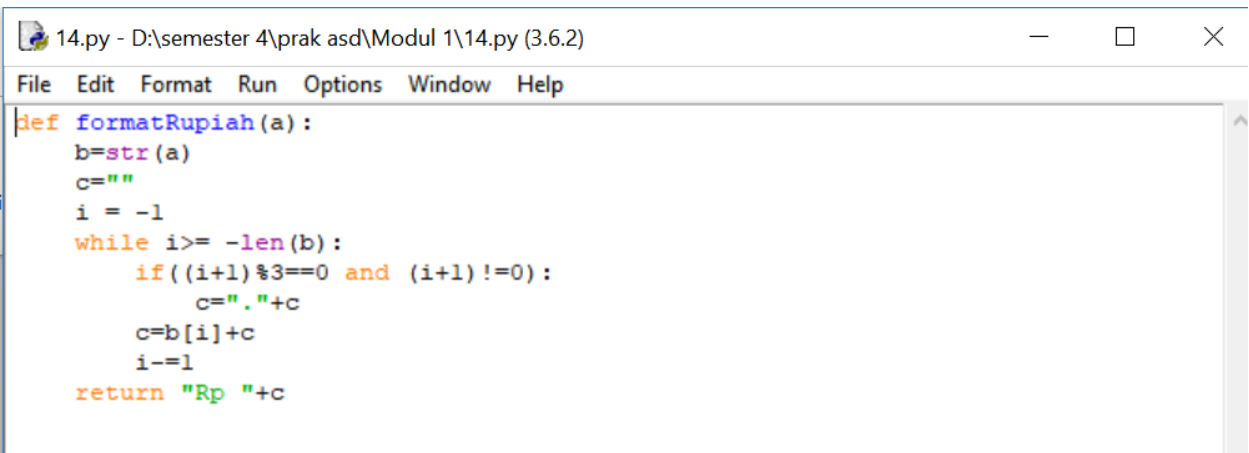


The screenshot shows a Python IDE window titled "13.py - D:\semester 4\prak asd\Modul 1\13.py (3.6.2)". The menu bar includes File, Edit, Format, Run, Options, Window, and Help. The code defines a function `katakan(a)` that takes an integer `a` and returns a string representing the number in Indonesian words. The function uses two dictionaries, `x` and `y`, to map digits and their positions to words. It then iterates through the digits of `a` from right to left, building the output string `c` by concatenating the corresponding words from `x` and `y`. The execution shows the function being called with the argument `3125750`, resulting in the output string `'Tiga juta Seratus Dua puluh Lima ribu Tujuh ratus Lima puluh '`.

```
def katakan(a):
    x={"0":"","1":"Se","2":"Dua ","3":"Tiga ","4":"Empat ",
       "5":"Lima ","6":"Enam ","7":"Tujuh ","8":"Delapan ","9":"Sembilan "}
    y={-1:"",-2:"puluh",-3:"ratus",-4:"ribu",-5:"puluh",
       -6:"ratus",-7:"juta",-8:"puluhjuta "}
    b=str(a)
    c=""
    i=-1
    while i>= -len(b):
        c=x[b[i]]+y[i]+c
        i-=1
    return c

===== RESTART: D:\semester 4\prak asd\Modul 1\13.py =====
>>> katakan(3125750)
'Tiga juta Seratus Dua puluh Lima ribu Tujuh ratus Lima puluh '
>>>
```

14.



The screenshot shows a Python IDE window titled "14.py - D:\semester 4\prak asd\Modul 1\14.py (3.6.2)". The menu bar includes File, Edit, Format, Run, Options, Window, and Help. The code defines a function `formatRupiah(a)` that takes an integer `a` and returns a string representing the number in Indonesian Rupiah format. The function uses a loop to iterate through the digits of `a` from right to left, building the output string `c` by concatenating the digits and commas. The output string is then formatted with the prefix `"Rp "`.

```
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
```



```
===== RESTART: D:\semester 4\prak asd\Modul 1\14.py =====  
>>> formatRupiah(1500)  
'Rp 1.500'  
>>> formatRupiah(2560000)  
'Rp 2.560.000'  
>>> |
```

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