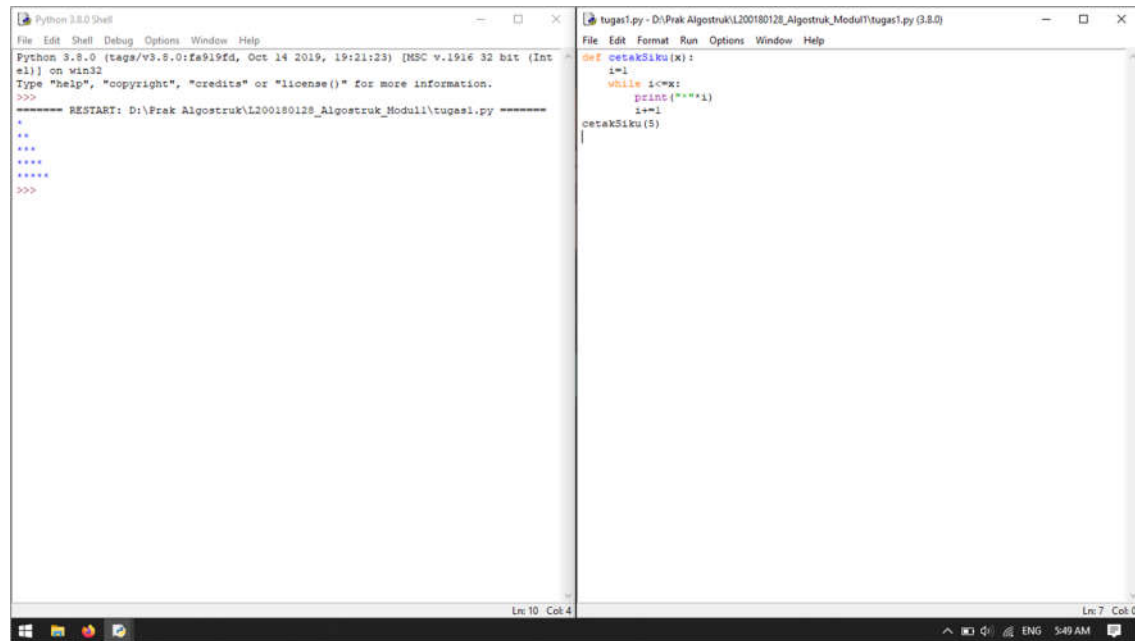


Nama : Hudi Pradjanu

NIM : L200180128

Kelas : E

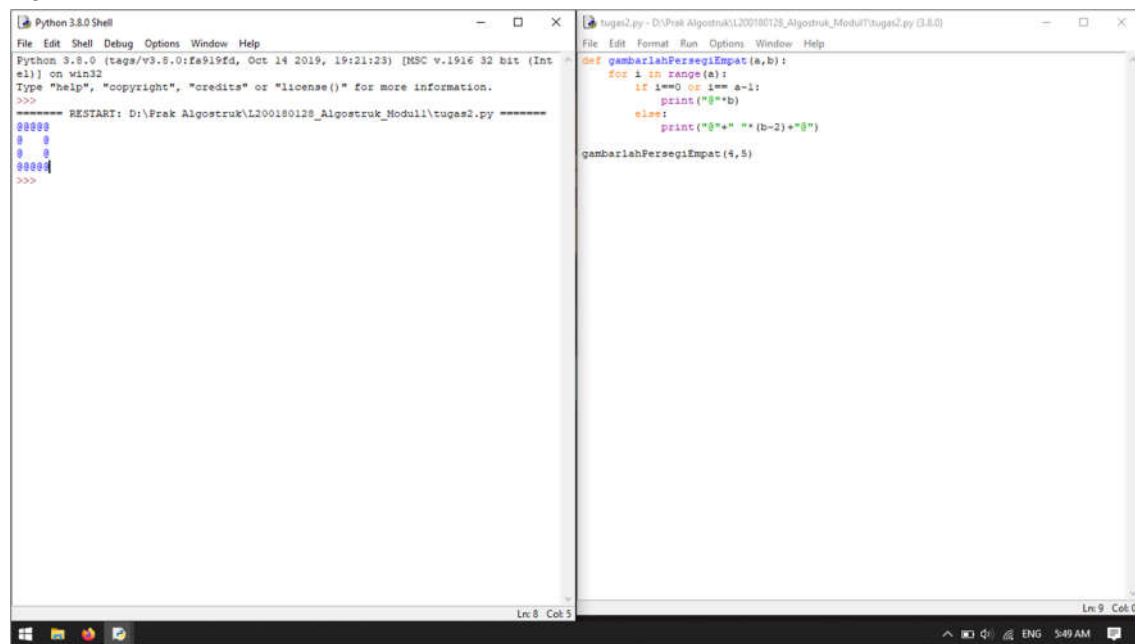
No 1



```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas1.py =====
>>>

tugas1.py - D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas1.py (3.8.0)
File Edit Format Run Options Window Help
def cetakSiku(x):
    i=1
    while i<=x:
        print(" "*i)
        i+=1
    cetakSiku(5)
```

No 2



```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas2.py =====
>>>
*****
*   *
*   *
*   *
*****
>>>

tugas2.py - D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas2.py (3.8.0)
File Edit Format Run Options Window Help
def gambarlahPersegiEmpat(a,b):
    for i in range(a):
        if i==0 or i==a-1:
            print("8"*b)
        else:
            print("8"+" "*(b-2)+"8")
    gambarlahPersegiEmpat(4,5)
```

No 3

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas3.py =====
9 4
9 5
>>>
```

```
tugas3.py - D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas3.py (3.8.0)
File Edit Format Run Options Window Help
#### NO 3 A
def jumlahHurufVokal(b):
    a="aiueoAIUEO"
    x=0
    for i in b:
        if i in a:
            x+=1
    print(len(b),x)

jumlahHurufVokal("Surakarta")

#### NO 3 B
def jumlahHurufKonsongan(b):
    a="aiueoAIUEO"
    x=0
    for i in b:
        if i not in a:
            x+=1
    print(len(b),x)

jumlahHurufKonsongan("Surakarta")
```

No 4

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas4.py =====
3:0
6.333333333333333
>>>
```

```
tugas4.py - D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas4.py (3.8.0)
File Edit Format Run Options Window Help
def rerata(b):
    x=sum(b)/len(b)
    print(x)

rerata([1,2,3,4,5])
gr=[3,4,5,4,5,4,5,2,2,10,11,23]
rerata(gr)
|
```

No 5

```

Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas5.py =====
17 adalah bilangan prima
97 adalah bilangan prima
123 bukan bilangan prima
>>>

tugas5.py - D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas5.py (3.8.0)
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]
    bukanPrKecil = [0,1,4,6,8,9,10]
    if n in primaKecil:
        return True
    elif n in bukanPrKecil:
        return False
    else:
        for i in range(2,int(sq(n))+1):
            if (n % i) == 0:
                print(n, "bukan bilangan prima")
                break
            else:
                print(n,"adalah bilangan prima")

apakahPrima(17)
apakahPrima(97)
apakahPrima(123)

```

No 6

```

Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas6.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
101
103
107
109
113
127
131
137
139
149
151
157
167
173
179
181
187
191
193
197
199
211
223
227
229
233
239
241
251
257
263
269
271
277
281
283
293
307
311
313
317
331
337
347
349
353
359
367
373
379
383
389
397
401
409
419
421
431
433
439
443
449
457
461
463
467
479
487
491
499
503
509
521
523
527
539
541
547
557
563
569
571
577
587
593
599
601
607
613
617
619
623
629
631
637
641
643
647
653
659
661
667
671
673
677
683
687
691
697
701
703
709
713
719
727
733
739
743
751
757
761
769
773
779
787
791
797
803
809
811
817
821
823
827
829
833
839
843
853
857
859
863
869
877
881
883
887
893
897
901
907
911
913
917
919
923
929
931
937
941
943
947
953
959
967
971
973
977
983
989
991
993
997
1000
>>>

tugas6.py - D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas6.py (3.8.0)
File Edit Format Run Options Window Help
def bilanganPrima():
    prima=list()
    for i in range(2,1000):
        a = True
        for iter in prima:
            if(i%iter==0):
                a=False
                break
        if(a):
            print(i)
            prima.append(i)
    bilanganprima()

```

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
729
733
739
743
751
757
761
769
773
787
797
809
811
821
823
827
829
839
853
857
859
863
877
881
883
887
907
911
919
929
937
941
947
953
967
971
977
983
991
997
>>>

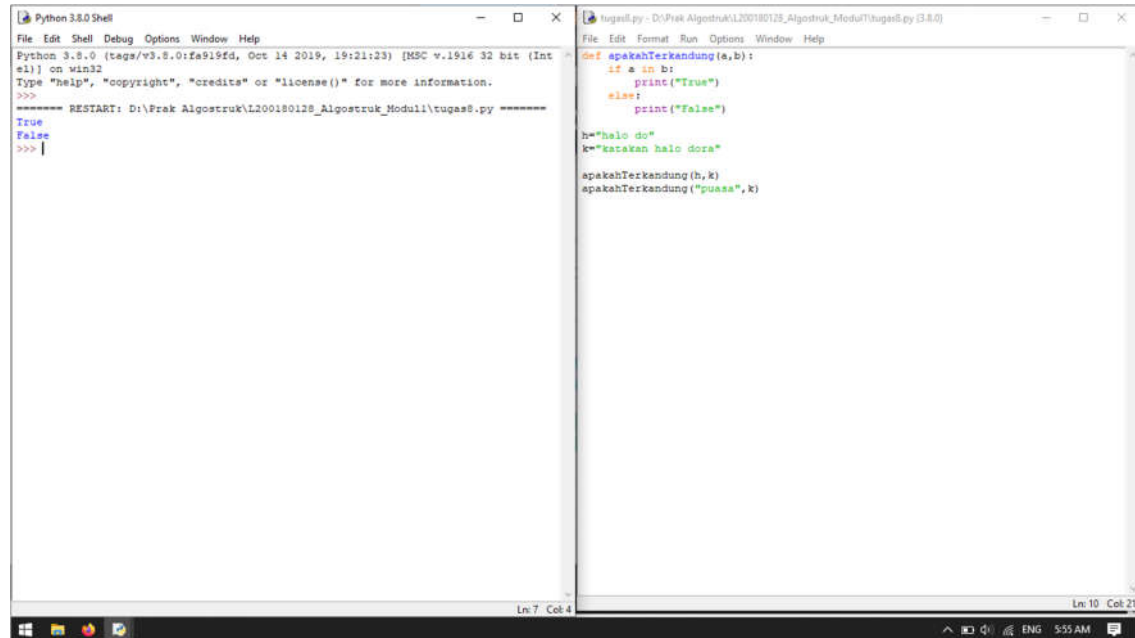
tugas6.py - D:\Prak Algoritma\1200180128_Algoritma_Modul7\tugas6.py (3.8.0)
File Edit Format Run Options Window Help
def bilanganprima():
    prima=list()
    for i in range(2,1000):
        a = True
        for iter in prima:
            if(i%iter==0):
                a=False
                break
        if(a):
            print(i)
            prima.append(i)
    bilanganprima()
|
```

No 7

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:2e99fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algoritma\1200180128_Algoritma_Modul7\tugas7.py =====
>>> [2, 5]
>>> [2, 2, 2, 3, 5]
>>> [19]
>>>

tugas7.py - D:\Prak Algoritma\1200180128_Algoritma_Modul7\tugas7.py (3.8.0)
File Edit Format Run Options Window Help
def faktorprima(x):
    a=[]
    b=2
    while b<=x:
        if x%b==0:
            a.append(b)
            x/=b
        else:
            b+=1
    print(a)
    faktorprima(10)
    faktorprima(120)
    faktorprima(19)
```

No 8



The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.0 Shell' with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). It displays the Python prompt and the output of a function call:

```
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas8.py =====
True
False
>>> |
```

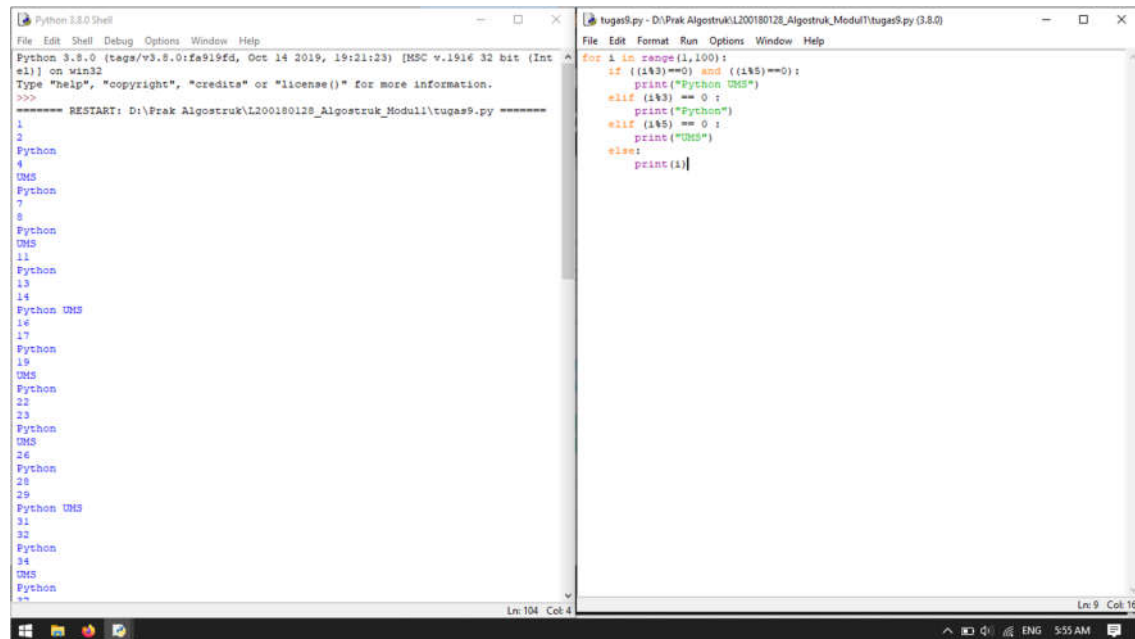
 The right window is a text editor titled 'tugas8.py - D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas8.py (3.8.0)' with a menu bar (File, Edit, Format, Run, Options, Window, Help). It contains the following Python code:

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

h="halo do"
k="katakan halo dora"
apakahTerkandung(h,k)
apakahTerkandung("puasa",k)
```

 The status bar at the bottom shows 'Ln: 7 Col: 4' for the shell and 'Ln: 10 Col: 21' for the editor. The system tray at the bottom right shows the time as 5:55 AM.

No 9



The image shows two windows from a Windows desktop. The left window is a 'Python 3.8.0 Shell' with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). It displays the output of a loop:

```
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas8.py =====
1
2
Python
4
UNS
Python
7
8
Python
UNS
11
Python
13
14
Python UNS
16
17
Python
19
UNS
Python
22
23
Python
UNS
26
Python
28
29
Python UNS
31
32
Python
34
UNS
Python
37
```

 The right window is a text editor titled 'tugas8.py - D:\Prak Algostruk\L200180128_Algostruk_Modul1\tugas8.py (3.8.0)' with a menu bar (File, Edit, Format, Run, Options, Window, Help). It contains the following Python code:

```
for i in range(1,100):
    if ((i%3)==0) and ((i%5)==0):
        print("Python UNS")
    elif (i%3) == 0:
        print("Python")
    elif (i%5) == 0:
        print("UNS")
    else:
        print(i)
```

 The status bar at the bottom shows 'Ln: 104 Col: 4' for the shell and 'Ln: 9 Col: 16' for the editor. The system tray at the bottom right shows the time as 5:55 AM.

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python UNS
61
62
Python
64
UNS
Python
67
68
Python
UNS
71
Python
73
74
Python UNS
76
77
Python
79
UNS
Python
82
83
Python
UNS
86
Python
88
Python UNS
91
92
Python
94
UNS
Python
97
98
Python
>>>
Ln: 104 Col: 4

tugas9.py - D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas9.py (3.8.0)
File Edit Format Run Options Window Help
for i in range(1,100):
    if ((i%3)==0) and ((i%5)==0):
        print("Python UNS")
    elif (i%3) == 0:
        print("Python")
    elif (i%5) == 0:
        print("UNS")
    else:
        print(i)
Ln: 9 Col: 16
```

No 10

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:2e99f9d, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas10.py =====
Determinan negatif. Persamaan tidak mempunyai akar real
>>>
Ln: 6 Col: 4

tugas10.py - D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas10.py (3.8.0)
File Edit Format Run Options Window Help
from math import sqrt as s
def selesaikanABC(a,b,c):
    a=float(a)
    b=float(b)
    c=float(c)
    D=(b**2)-(4*a*c)
    if D<0:
        x1=(-b+s(D))/(2*a)
        x2=(-b-s(D))/(2*a)
        hasil=[x1,x2]
        print(hasil)
    else:
        print("Determinan negatif. Persamaan tidak mempunyai akar real")
selesaikanABC(1,2,3)
Ln: 16 Col: 14
```

No 11

The image shows two side-by-side Python IDE windows. The left window, titled 'Python 3.8.0 Shell', displays the output of a program that checks if a year is a leap year. The right window, titled 'tugas11.py - D:\Prak Algoritma\1200180128_Algoritma_Modul1\tugas11.py (3.8.0)', shows the source code for the 'apakahKabisat' function.

```

Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algoritma\1200180128_Algoritma_Modul1\tugas11.py =====
1896 Tahun Kabisat
1897 Bukan Tahun Kabisat
2000 Tahun Kabisat
2100 Bukan Tahun Kabisat
>>>

tugas11.py - D:\Prak Algoritma\1200180128_Algoritma_Modul1\tugas11.py (3.8.0)
File Edit Format Run Options Window Help
def apakahKabisat(x):
    if (x % 4) == 0:
        if (x % 100) == 0:
            if (x % 400) == 0:
                print(x, "Tahun Kabisat")
            else:
                print(x, "Bukan Tahun Kabisat")
        else:
            print(x, "Tahun Kabisat")
    else:
        print(x, "Bukan Tahun Kabisat")

apakahKabisat(1896)
apakahKabisat(1897)
apakahKabisat(2000)
apakahKabisat(2100)
  
```

No 12

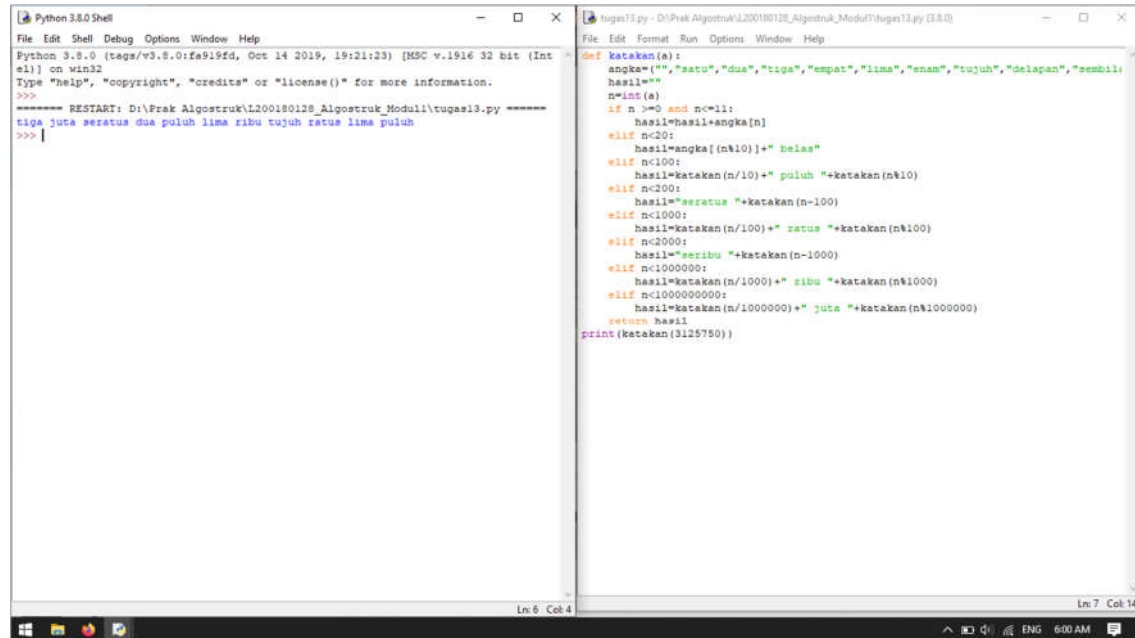
The image shows two side-by-side Python IDE windows. The left window, titled 'Python 3.8.0 Shell', displays the output of a number guessing game. The right window, titled 'tugas12.py - D:\Prak Algoritma\1200180128_Algoritma_Modul1\tugas12.py (3.8.0)', shows the source code for the game.

```

Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algoritma\1200180128_Algoritma_Modul1\tugas12.py =====
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak
masukan tebakan ->12
Itu terlalu kecil, Coba lagi
masukan tebakan ->23
Itu terlalu kecil, Coba lagi
masukan tebakan ->34
Itu terlalu kecil, Coba lagi
masukan tebakan ->56
Itu terlalu besar, Coba lagi
masukan tebakan ->67
Itu terlalu besar, Coba lagi
masukan tebakan ->54
Ya, anda benar
>>>

tugas12.py - D:\Prak Algoritma\1200180128_Algoritma_Modul1\tugas12.py (3.8.0)
File Edit Format Run Options Window Help
from random import *
x = randint(1, 100)
print("Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak")
while True:
    a=int(input("masukan tebakan ->"))
    if a<x:
        print("Itu terlalu kecil, Coba lagi")
    elif a>x:
        print("Itu terlalu besar, Coba lagi")
    else:
        print("Ya, anda benar")
        break
  
```

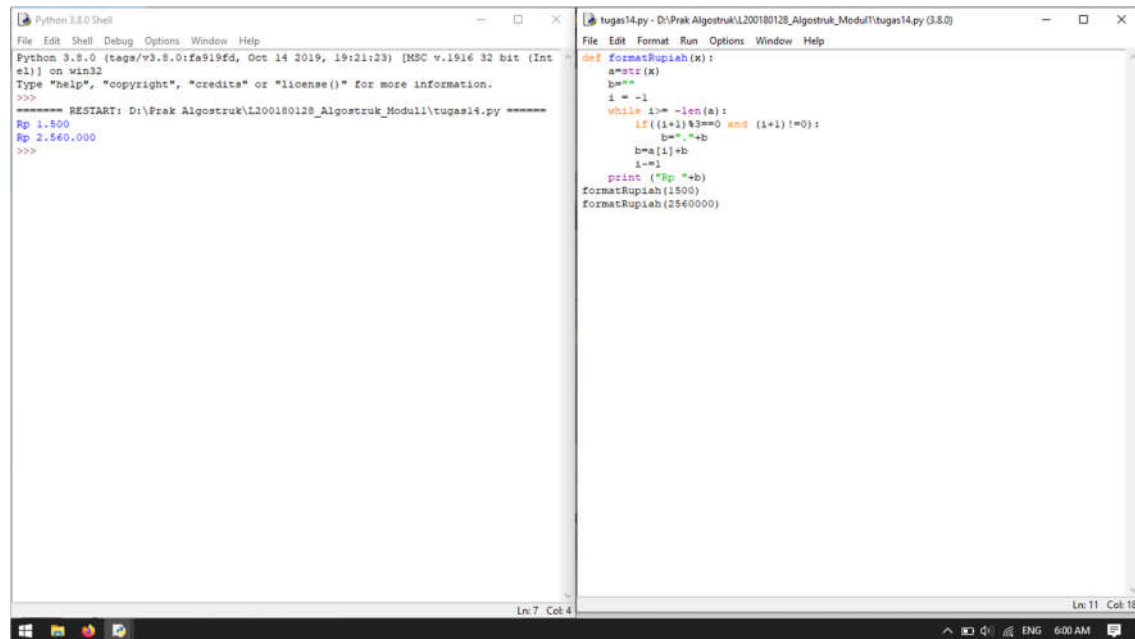
No 13



```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas13.py =====
tiga juta seratus dua puluh lima ribu tujuh ratus lima puluh
>>> |
```

```
tugas13.py - D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas13.py (3.8.0)
File Edit Format Run Options Window Help
def katakan(a):
    angka=["","satu","dua","tiga","empat","lima","enam","tujuh","delapan","sembil"]
    hasil=""
    n=ins(a)
    if n >=0 and n<=11:
        hasil=hasil+angka[n]
    elif n<20:
        hasil=angka[(n%10)]+" belas"
    elif n<100:
        hasil=katakan(n/10)+" puluh "+katakan(n%10)
    elif n<200:
        hasil="seratus "+katakan(n-100)
    elif n<1000:
        hasil=katakan(n/100)+" ratus "+katakan(n%100)
    elif n<2000:
        hasil="seribu "+katakan(n-1000)
    elif n<1000000:
        hasil=katakan(n/1000)+" ribu "+katakan(n%1000)
    elif n<1000000000:
        hasil=katakan(n/1000000)+" juta "+katakan(n%1000000)
    return hasil
print(katakan(3125750))
```

No 14



```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Int
el)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas14.py =====
Rp 1.500
Rp 2.560.000
>>>
```

```
tugas14.py - D:\Prak Algoritma\L200180128_Algoritma_Modul1\tugas14.py (3.8.0)
File Edit Format Run Options Window Help
def formatRupiah(k):
    a=str(k)
    b=""
    i = -1
    while i>= -len(a):
        if ((i+1)%3==0 and (i+1)!=0):
            b="."+b
        b=a[i]+b
        i-=1
    print ("Rp "+b)
formatRupiah(1500)
formatRupiah(2560000)
```