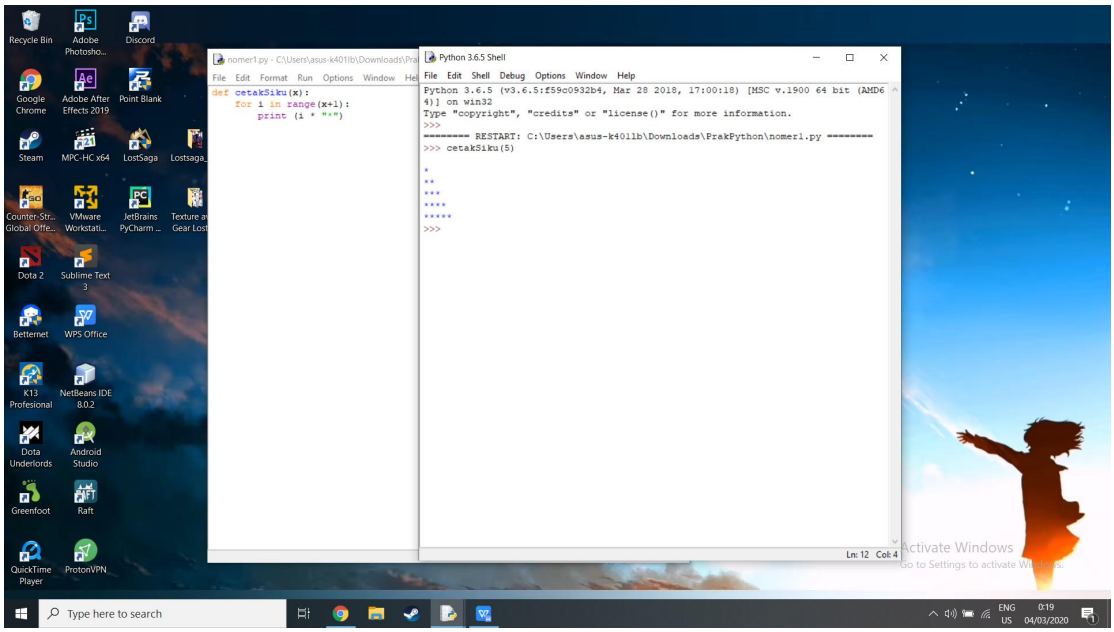
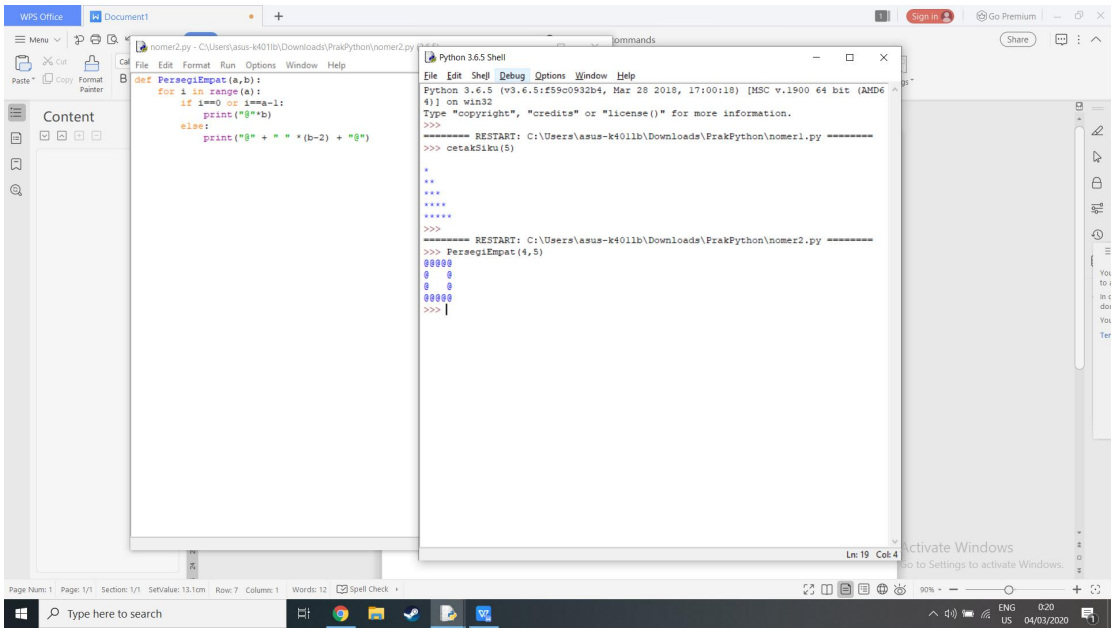
Nama : Amartya Maulana
Kelas : G
Praktikum Algoritma dan Struktur Data Bab I

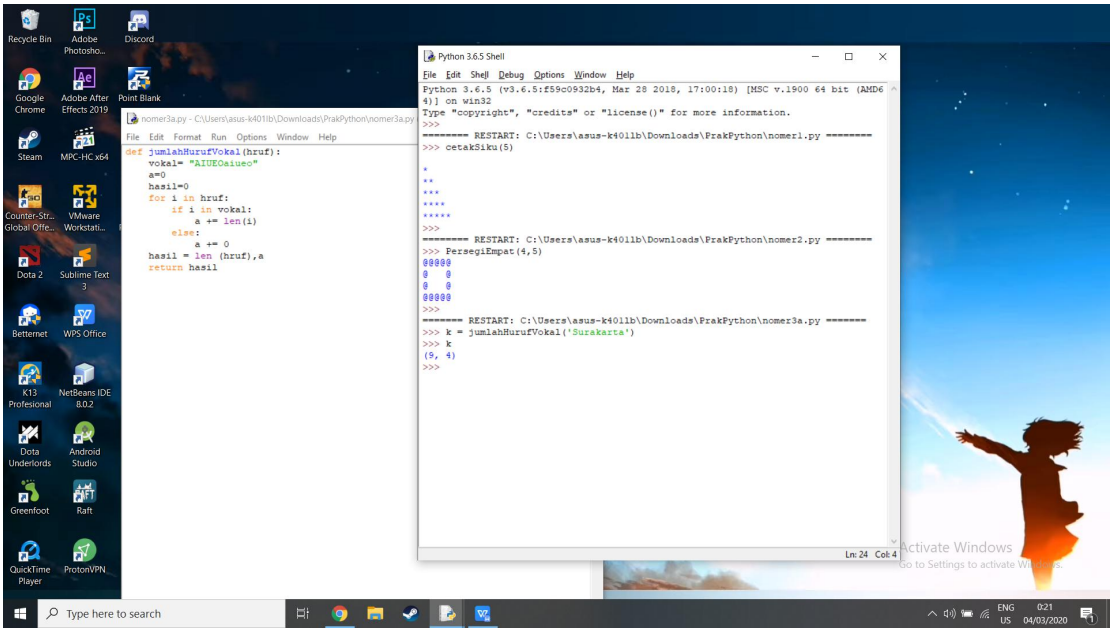
1.



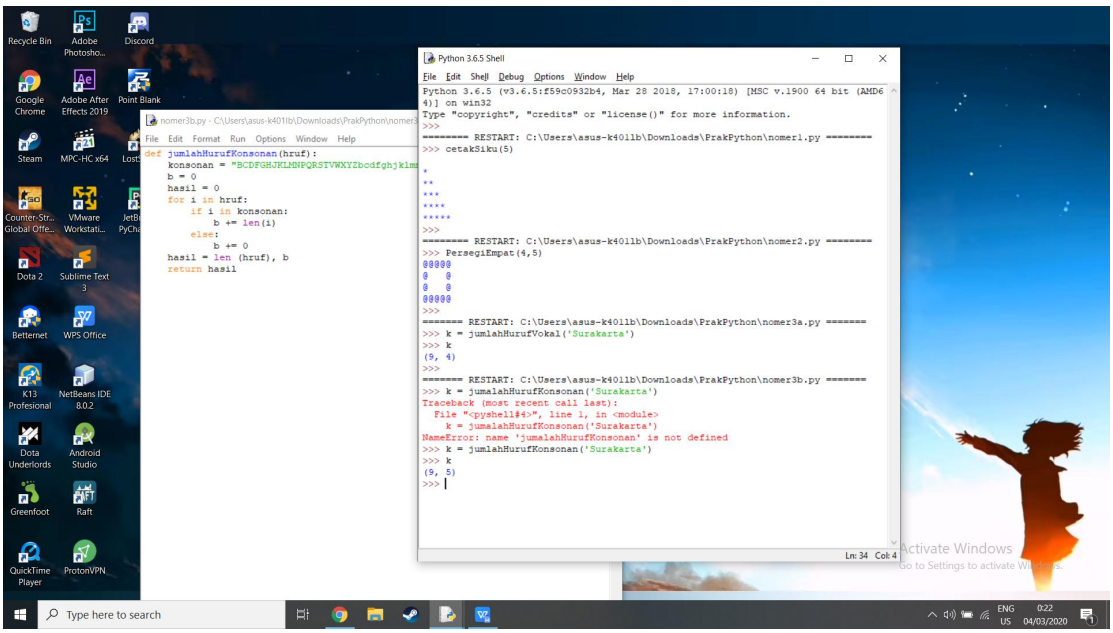
2.



3.a


Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer1.py ========
>>> cetakSiku(5)
*
**
***
****
*****
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer2.py ========
>>> PersegiEmpat(4,5)
@@@@@
@ @
@ @
@@@@@
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer3a.py =======
>>> k = jumlahHurufVokal('Surakarta')
>>> k
(9, 4)
>>>
Ln: 24 Col: 4
def jumlahHurufVokal(hruf):
vokal= "AIUEOaiueo"
a=0
hasil=0
for i in hruf:
if i in vokal:
a += len(i)
else:
a += 0
hasil = len (hruf),a
return hasil
Activate Windows
Type here to search
ENG US
04/03/2020

3.b


Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer1.py ========
>>> cetakSiku(5)
*
**
***
****
*****
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer2.py ========
>>> PersegiEmpat(4,5)
@@@@@
@ @
@ @
@@@@@
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer3a.py =======
>>> k = jumlahHurufVokal('Surakarta')
>>> k
(9, 4)
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer3b.py =======
>>> k = jumlahHurufKonsonan('Surakarta')
Traceback (most recent call last):
File "<pyshell#4>", line 1, in <module>
k = jumlahHurufKonsonan('Surakarta')
NameError: name 'jumlahHurufKonsonan' is not defined
>>> k = jumlahHurufKonsonan('Surakarta')
>>> k
(9, 5)
>>>
Ln: 34 Col: 4
def jumlahHurufKonsonan(hruf):
konsonan = "BCDFGHJKLMNPQRSTVWXYZbcdfghjklm
b = 0
hasil = 0
for i in hruf:
if i in konsonan:
b += len(i)
else:
b += 0
hasil = len (hruf), b
return hasil
Activate Windows
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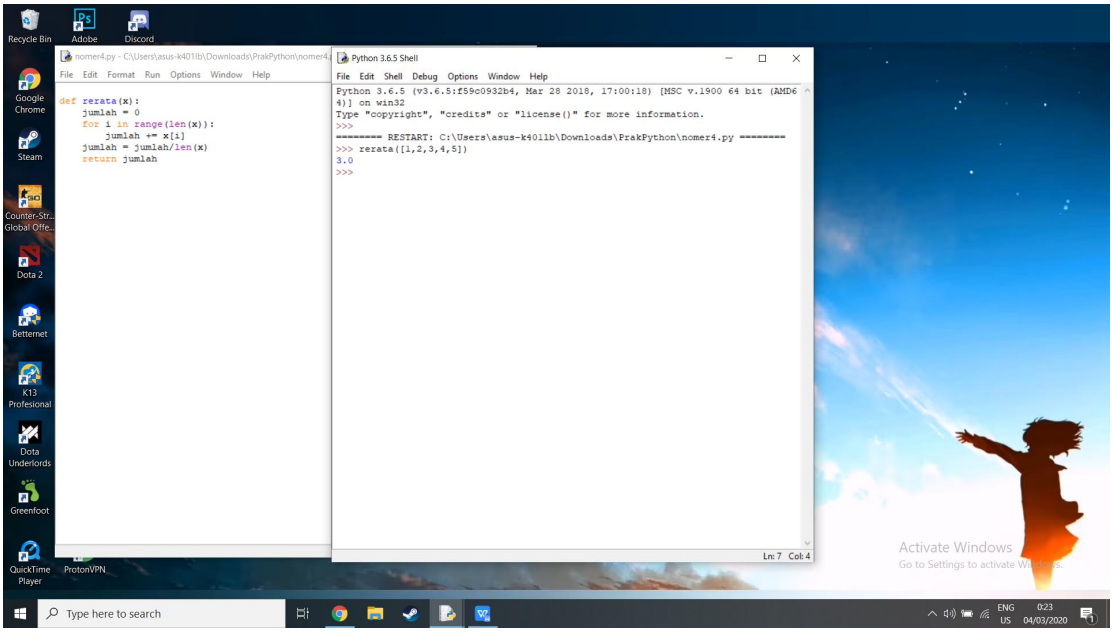
ENG US
04/03/2020

4.


Recycle Bin
Adobe
Discord
Google Chrome
Steam
Counter-Str... Global Offe...
Dota 2
Betternet
K13 Profesional
Dota Underlords
Greenfoot
QuickTime Player
ProtonVPN
nomer4.py - C:\Users\asus-k401lb\Downloads\PrakPython\nomer4.py
File Edit Format Run Options Window Help
def rerata(x):
jumlah = 0
for i in range(len(x)):
jumlah += x[i]
jumlah = jumlah/len(x)
return jumlah
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer4.py ========
>>> rerata([1,2,3,4,5])
3.0
>>>
Ln: 7 Col: 4
Activate Windows
Go to Settings to activate Windows.
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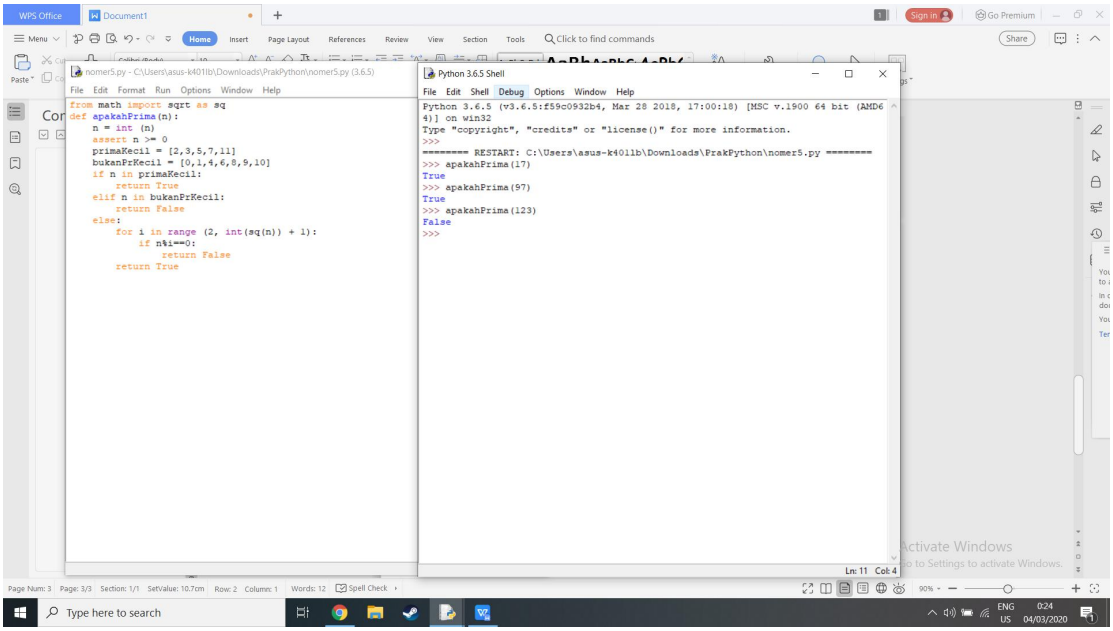
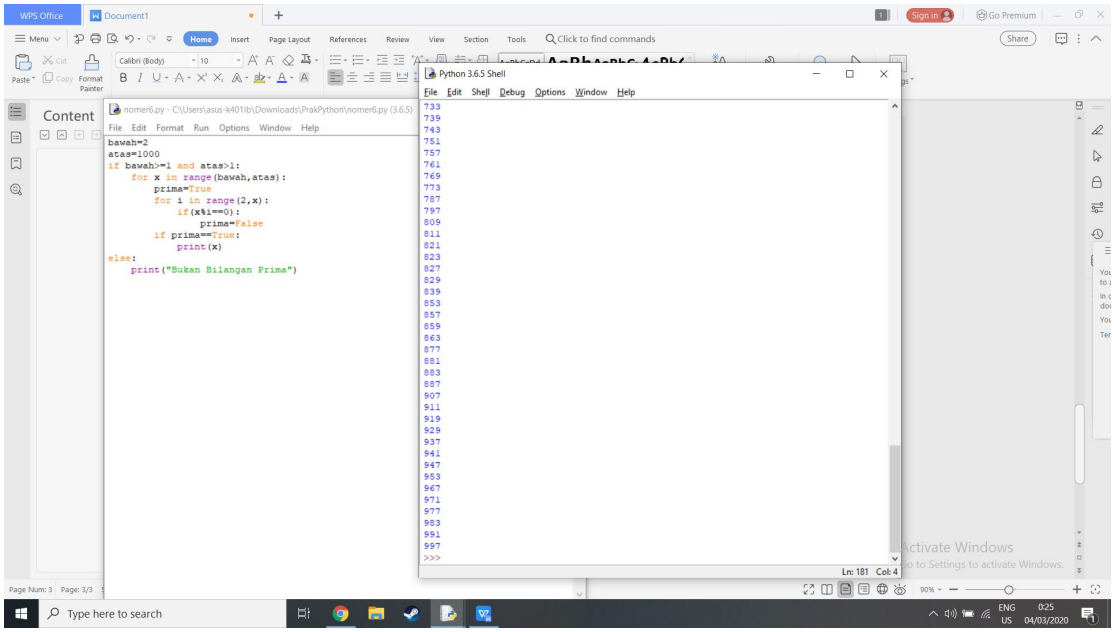
ENG US
0:23
04/03/2020

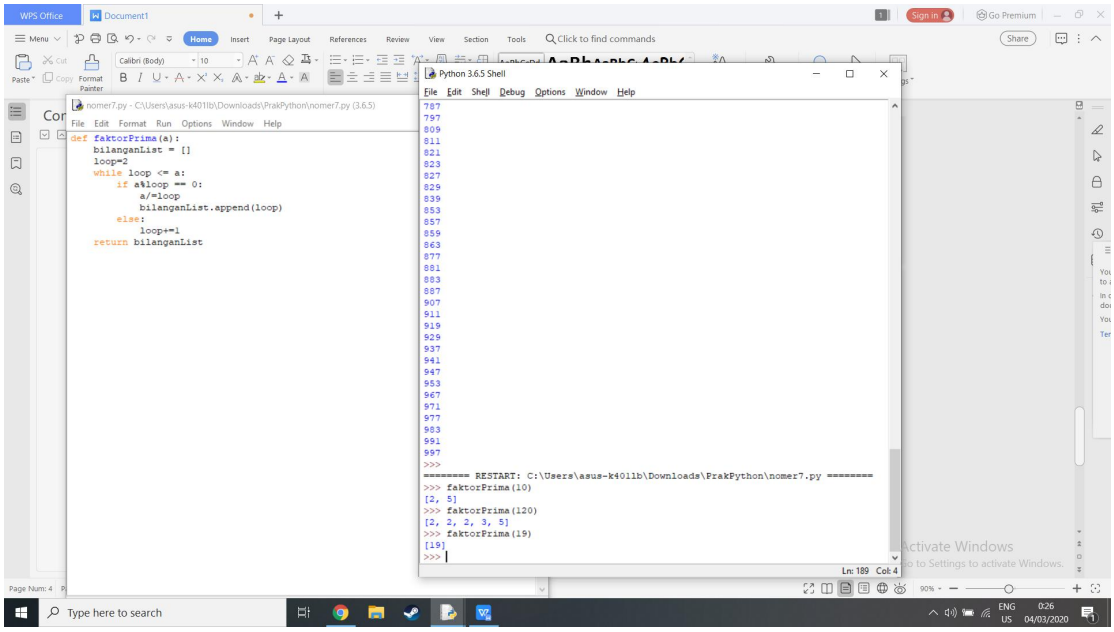
5.


WPS Office
Document1
Home Insert Page Layout References Review View Section Tools
Click to find commands
nomer5.py - C:\Users\asus-k401lb\Downloads\PrakPython\nomer5.py (3.6.5)
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:
return False
return True
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer5.py ========
>>> apakahPrima(17)
True
>>> apakahPrima(97)
True
>>> apakahPrima(123)
False
>>>
Ln: 11 Col: 4
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG US
0:24
04/03/2020

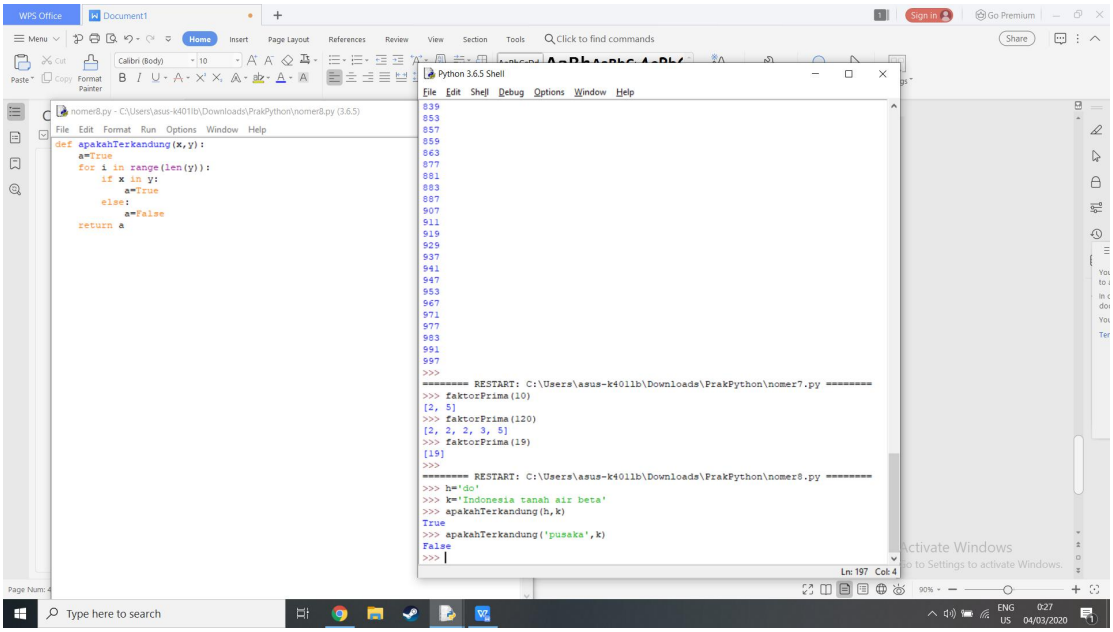
6.


nomer6.py - C:\Users\asus-k401lb\Downloads\PrakPython\nomer6.py (3.6.5)
bawah=2
atas=1000
if bawah>=1 and atas>1:
for x in range(bawah,atas):
prima=True
for i in range(2,x):
if(x%i==0):
prima=False
if prima==True:
print(x)
else:
print("Bukan Bilangan Prima")
Python 3.6.5 Shell
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
>>>
Ln: 181 Col: 4

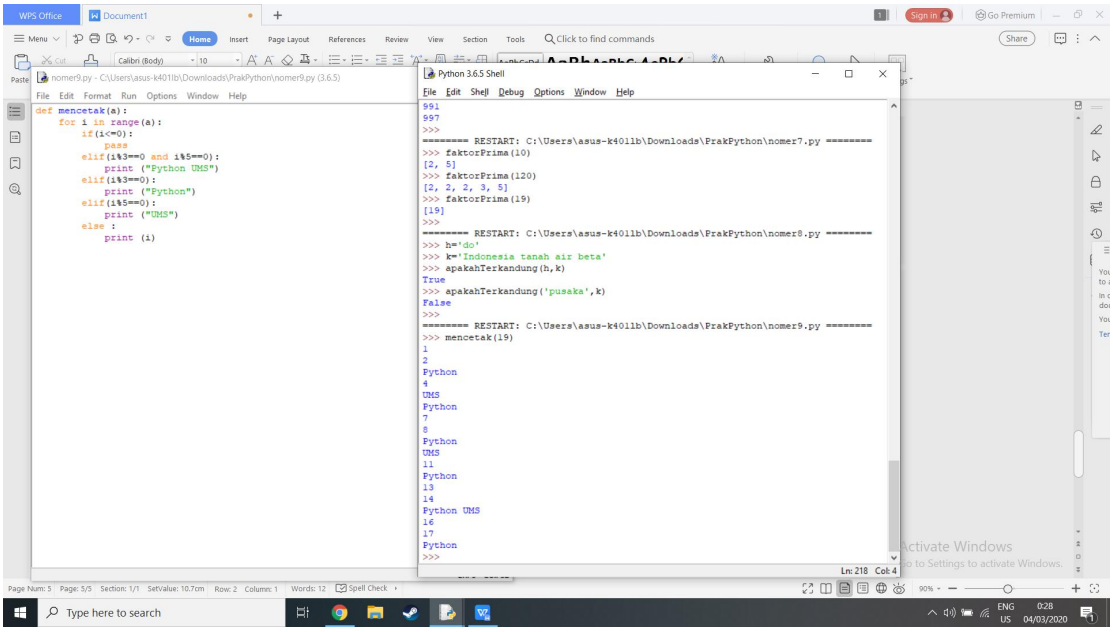
7.


nomer7.py - C:\Users\asus-k401lb\Downloads\PrakPython\nomer7.py (3.6.5)
def faktorPrima(a):
bilanganList = []
loop=2
while loop <= a:
if a%loop == 0:
a/=loop
bilanganList.append(loop)
else:
loop+=1
return bilanganList
Python 3.6.5 Shell
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
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer7.py ========
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 2, 3, 5]
>>> faktorPrima(19)
[19]
>>>
Ln: 189 Col: 4

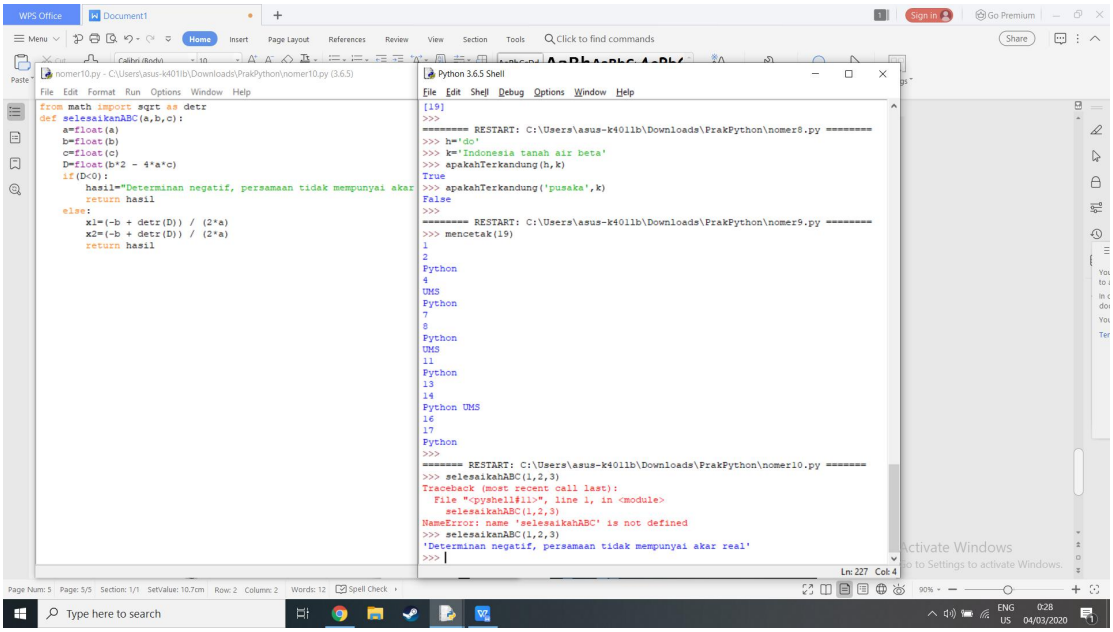
8.


def apakahTerkandung(x,y):
a=True
for i in range(len(y)):
if x in y:
a=True
else:
a=False
return a
Python 3.6.5 Shell
839
853
857
859
863
877
881
883
887
907
911
919
929
937
941
947
953
967
971
977
983
991
997
>>>
======== RESTART: C:\Users\asus-k4011b\Downloads\PrakPython\nomer7.py ========
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 2, 3, 5]
>>> faktorPrima(19)
[19]
>>>
======== RESTART: C:\Users\asus-k4011b\Downloads\PrakPython\nomer8.py ========
>>> h='do'
>>> k='Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>>

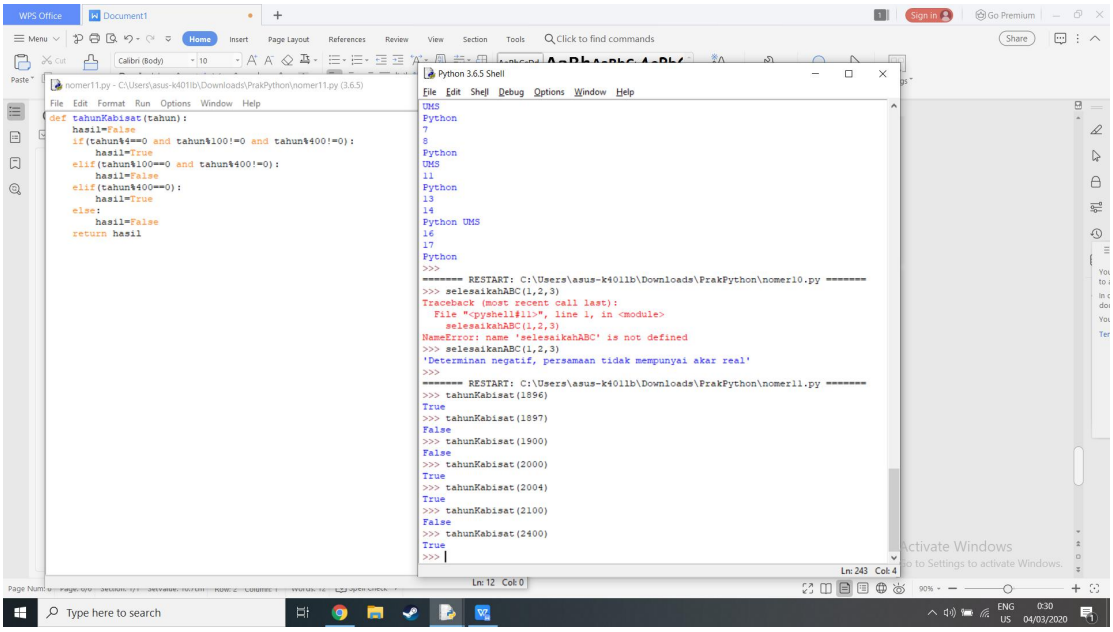
9.


def mencetak(a):
for i in range(a):
if(i<=0):
pass
elif(i%3==0 and i%5==0):
print ("Python UMS")
elif(i%3==0):
print ("Python")
elif(i%5==0):
print ("UMS")
else :
print (i)
Python 3.6.5 Shell
991
997
>>>
======== RESTART: C:\Users\asus-k4011b\Downloads\PrakPython\nomer7.py ========
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 2, 3, 5]
>>> faktorPrima(19)
[19]
>>>
======== RESTART: C:\Users\asus-k4011b\Downloads\PrakPython\nomer8.py ========
>>> h='do'
>>> k='Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>>
======== RESTART: C:\Users\asus-k4011b\Downloads\PrakPython\nomer9.py ========
>>> mencetak(19)
1
2
Python
4
UMS
Python
7
8
Python
UMS
11
Python
13
14
Python UMS
16
17
Python
>>>

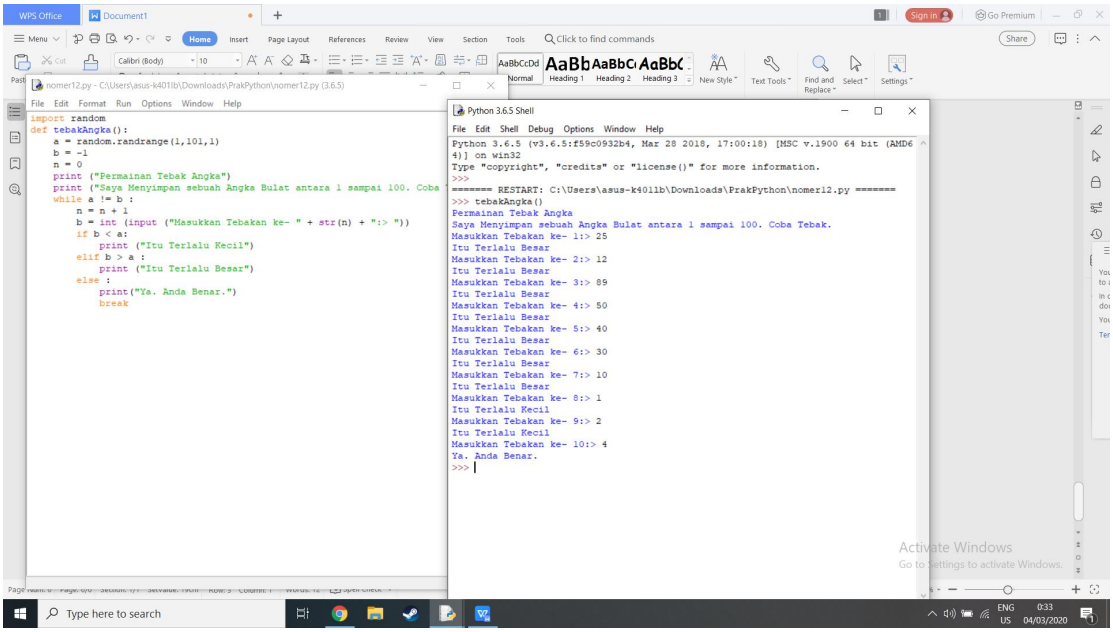
10.


nomer10.py - C:\Users\asus-k401lb\Downloads\PrakPython\nomer10.py (3.6.5)
from math import sqrt as detr
def selesaikanABC(a,b,c):
a=float(a)
b=float(b)
c=float(c)
D=float(b*2 - 4*a*c)
if(D<0):
hasil="Determinan negatif, persamaan tidak mempunyai akar
return hasil
else:
x1=(-b + detr(D)) / (2*a)
x2=(-b + detr(D)) / (2*a)
return hasil
Python 3.6.5 Shell
[19]
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer8.py ========
>>> h='do'
>>> k='Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>>
======== RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer9.py ========
>>> mencetak(19)
1
2
Python
4
UMS
Python
7
8
Python
UMS
11
Python
13
14
Python UMS
16
17
Python
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer10.py =======
>>> selesaikahABC(1,2,3)
Traceback (most recent call last):
File "<pyshell#11>", line 1, in <module>
selesaikahABC(1,2,3)
NameError: name 'selesaikahABC' is not defined
>>> selesaikanABC(1,2,3)
'Determinan negatif, persamaan tidak mempunyai akar real'
>>>
Ln: 227 Col: 4
Type here to search

11.


nomer11.py - C:\Users\asus-k401lb\Downloads\PrakPython\nomer11.py (3.6.5)
def tahunKabisat(tahun):
hasil=False
if(tahun%4==0 and tahun%100!=0 and tahun%400!=0):
hasil=True
elif(tahun%100==0 and tahun%400!=0):
hasil=False
elif(tahun%400==0):
hasil=True
else:
hasil=False
return hasil
Python 3.6.5 Shell
UMS
Python
7
8
Python
UMS
11
Python
13
14
Python UMS
16
17
Python
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer10.py =======
>>> selesaikahABC(1,2,3)
Traceback (most recent call last):
File "<pyshell#11>", line 1, in <module>
selesaikahABC(1,2,3)
NameError: name 'selesaikahABC' is not defined
>>> selesaikanABC(1,2,3)
'Determinan negatif, persamaan tidak mempunyai akar real'
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer11.py =======
>>> tahunKabisat(1896)
True
>>> tahunKabisat(1897)
False
>>> tahunKabisat(1900)
False
>>> tahunKabisat(2000)
True
>>> tahunKabisat(2004)
True
>>> tahunKabisat(2100)
False
>>> tahunKabisat(2400)
True
>>>
Ln: 243 Col: 4
Ln: 12 Col: 0
Type here to search

12.


nomer12.py - C:\Users\asus-k401lb\Downloads\PrakPython\nomer12.py (3.6.5)
import random
def tebakAngka():
a = random.randrange(1,101,1)
b = -1
n = 0
print ("Permainan Tebak Angka")
print ("Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba
while a != b :
n = n + 1
b = int (input ("Masukkan Tebakan ke- " + str(n) + ":> "))
if b < a:
print ("Itu Terlalu Kecil")
elif b > a :
print ("Itu Terlalu Besar")
else :
print("Ya. Anda Benar.")
break
Python 3.6.5 Shell
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer12.py =======
>>> tebakAngka()
Permainan Tebak Angka
Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.
Masukkan Tebakan ke- 1:> 25
Itu Terlalu Besar
Masukkan Tebakan ke- 2:> 12
Itu Terlalu Besar
Masukkan Tebakan ke- 3:> 89
Itu Terlalu Besar
Masukkan Tebakan ke- 4:> 50
Itu Terlalu Besar
Masukkan Tebakan ke- 5:> 40
Itu Terlalu Besar
Masukkan Tebakan ke- 6:> 30
Itu Terlalu Besar
Masukkan Tebakan ke- 7:> 10
Itu Terlalu Besar
Masukkan Tebakan ke- 8:> 1
Itu Terlalu Kecil
Masukkan Tebakan ke- 9:> 2
Itu Terlalu Kecil
Masukkan Tebakan ke- 10:> 4
Ya. Anda Benar.
>>>
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
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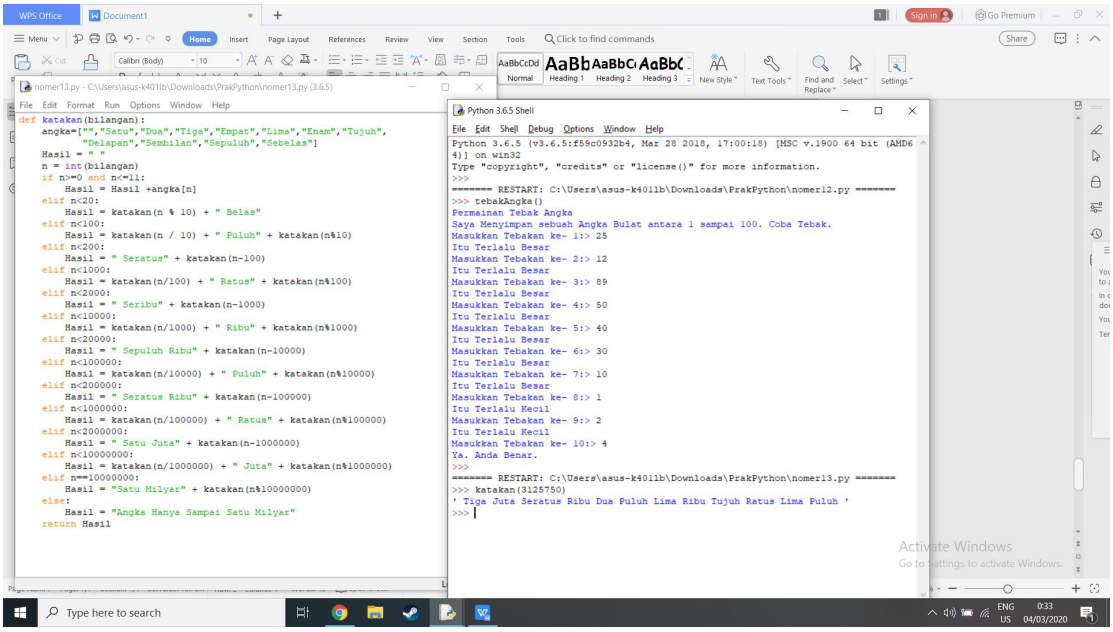
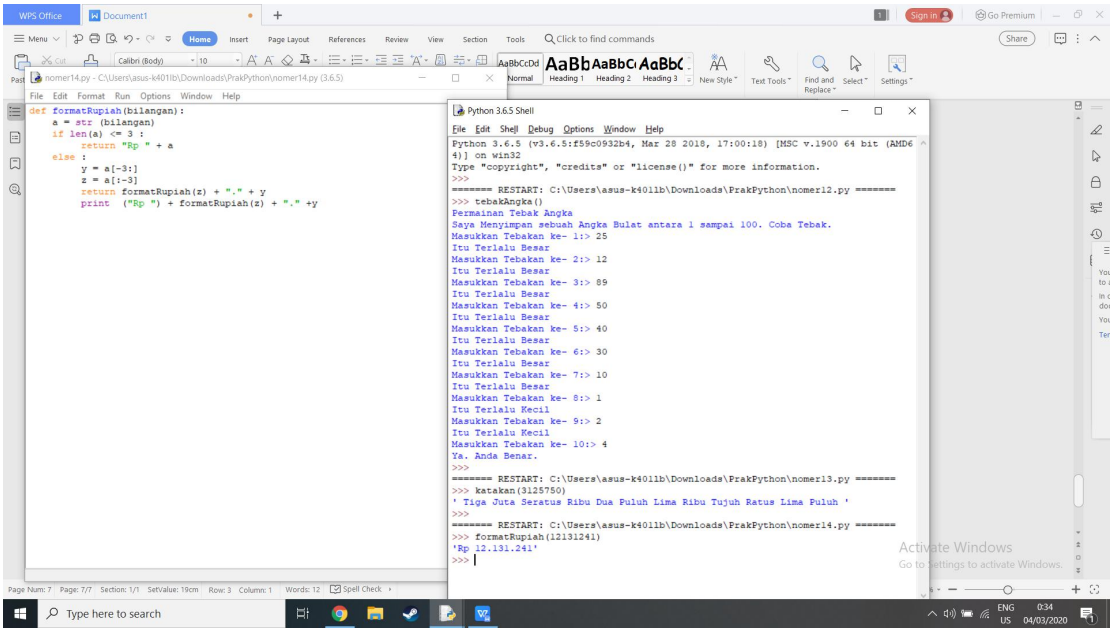
0:33
04/03/2020

13.


nomer13.py - C:\Users\asus-k401lb\Downloads\PrakPython\nomer13.py (3.6.5)
def katakan(bilangan):
angka=["","Satu","Dua","Tiga","Empat","Lima","Enam","Tujuh",
"Delapan","Sembilan","Sepuluh","Sebelas"]
Hasil = " "
n = int(bilangan)
if n>=0 and n<=11:
Hasil = Hasil +angka[n]
elif n<20:
Hasil = katakan(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<10000:
Hasil = katakan(n/1000) + " Ribu" + katakan(n%1000)
elif n<20000:
Hasil = " Sepuluh Ribu" + katakan(n-10000)
elif n<100000:
Hasil = katakan(n/10000) + " Puluh" + katakan(n%10000)
elif n<200000:
Hasil = " Seratus Ribu" + katakan(n-100000)
elif n<1000000:
Hasil = katakan(n/100000) + " Ratus" + katakan(n%100000)
elif n<2000000:
Hasil = " Satu Juta" + katakan(n-1000000)
elif n<10000000:
Hasil = katakan(n/1000000) + " Juta" + katakan(n%1000000)
elif n==10000000:
Hasil = "Satu Milyar" + katakan(n%10000000)
else:
Hasil = "Angka Hanya Sampai Satu Milyar"
return Hasil
Python 3.6.5 Shell
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer12.py =======
>>> tebakAngka()
Permainan Tebak Angka
Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.
Masukkan Tebakan ke- 1:> 25
Itu Terlalu Besar
Masukkan Tebakan ke- 2:> 12
Itu Terlalu Besar
Masukkan Tebakan ke- 3:> 89
Itu Terlalu Besar
Masukkan Tebakan ke- 4:> 50
Itu Terlalu Besar
Masukkan Tebakan ke- 5:> 40
Itu Terlalu Besar
Masukkan Tebakan ke- 6:> 30
Itu Terlalu Besar
Masukkan Tebakan ke- 7:> 10
Itu Terlalu Besar
Masukkan Tebakan ke- 8:> 1
Itu Terlalu Kecil
Masukkan Tebakan ke- 9:> 2
Itu Terlalu Kecil
Masukkan Tebakan ke- 10:> 4
Ya. Anda Benar.
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer13.py =======
>>> katakan(3125750)
' Tiga Juta Seratus Ribu Dua Puluh Lima Ribu Tujuh Ratus Lima Puluh '
>>>
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
US
0:33
04/03/2020

14.


def formatRupiah(bilangan):
a = str (bilangan)
if len(a) <= 3 :
return "Rp " + a
else :
y = a[-3:]
z = a[:-3]
return formatRupiah(z) + "." + y
print ("Rp ") + formatRupiah(z) + "." +y
Python 3.6.5 Shell
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer12.py =======
>>> tebakAngka()
Permainan Tebak Angka
Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.
Masukkan Tebakan ke- 1:> 25
Itu Terlalu Besar
Masukkan Tebakan ke- 2:> 12
Itu Terlalu Besar
Masukkan Tebakan ke- 3:> 89
Itu Terlalu Besar
Masukkan Tebakan ke- 4:> 50
Itu Terlalu Besar
Masukkan Tebakan ke- 5:> 40
Itu Terlalu Besar
Masukkan Tebakan ke- 6:> 30
Itu Terlalu Besar
Masukkan Tebakan ke- 7:> 10
Itu Terlalu Besar
Masukkan Tebakan ke- 8:> 1
Itu Terlalu Kecil
Masukkan Tebakan ke- 9:> 2
Itu Terlalu Kecil
Masukkan Tebakan ke- 10:> 4
Ya. Anda Benar.
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer13.py =======
>>> katakan(3125750)
' Tiga Juta Seratus Ribu Dua Puluh Lima Ribu Tujuh Ratus Lima Puluh '
>>>
======= RESTART: C:\Users\asus-k401lb\Downloads\PrakPython\nomer14.py =======
>>> formatRupiah(12131241)
'Rp 12.131.241'
>>>
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
US
0:34
04/03/2020