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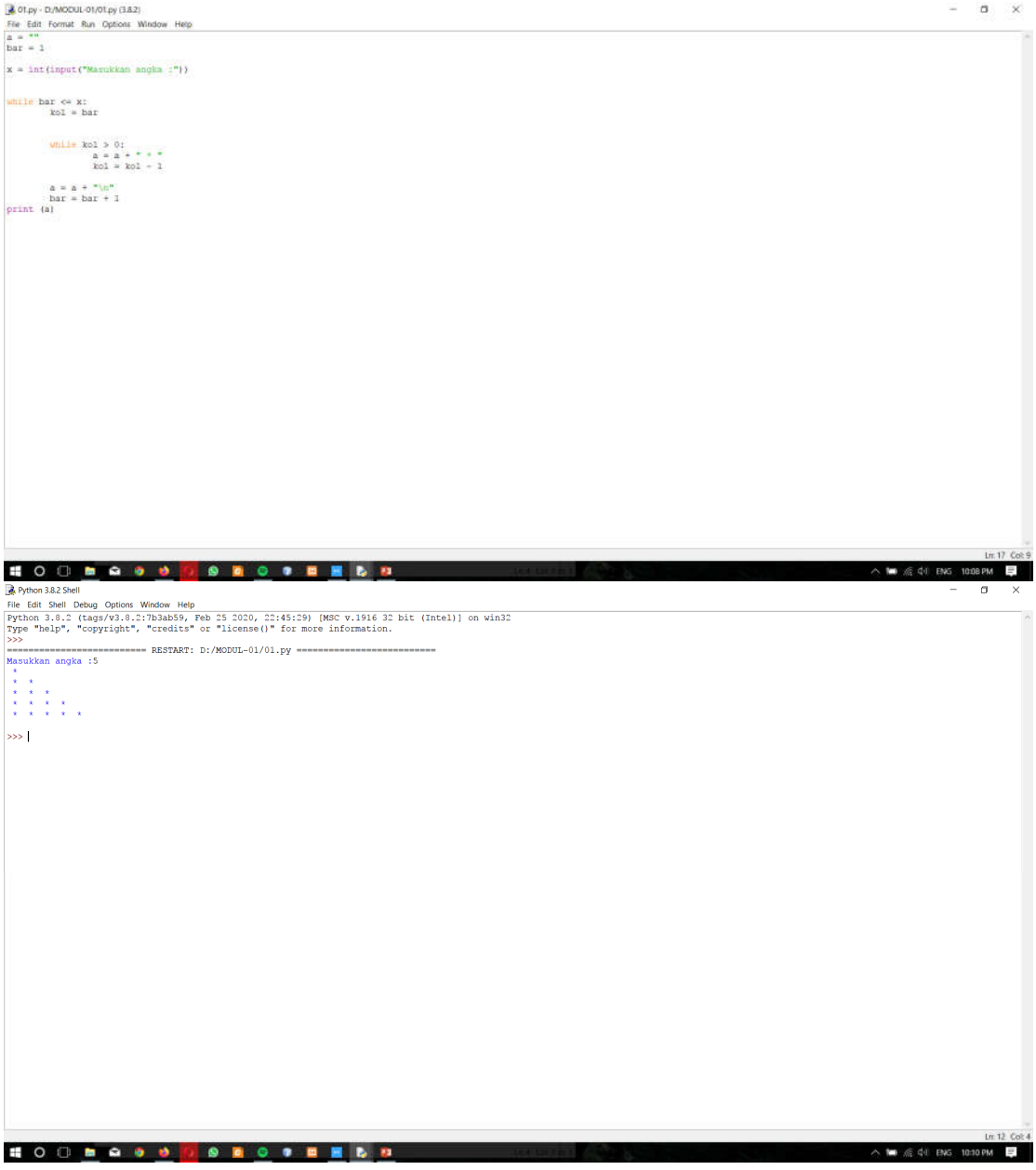
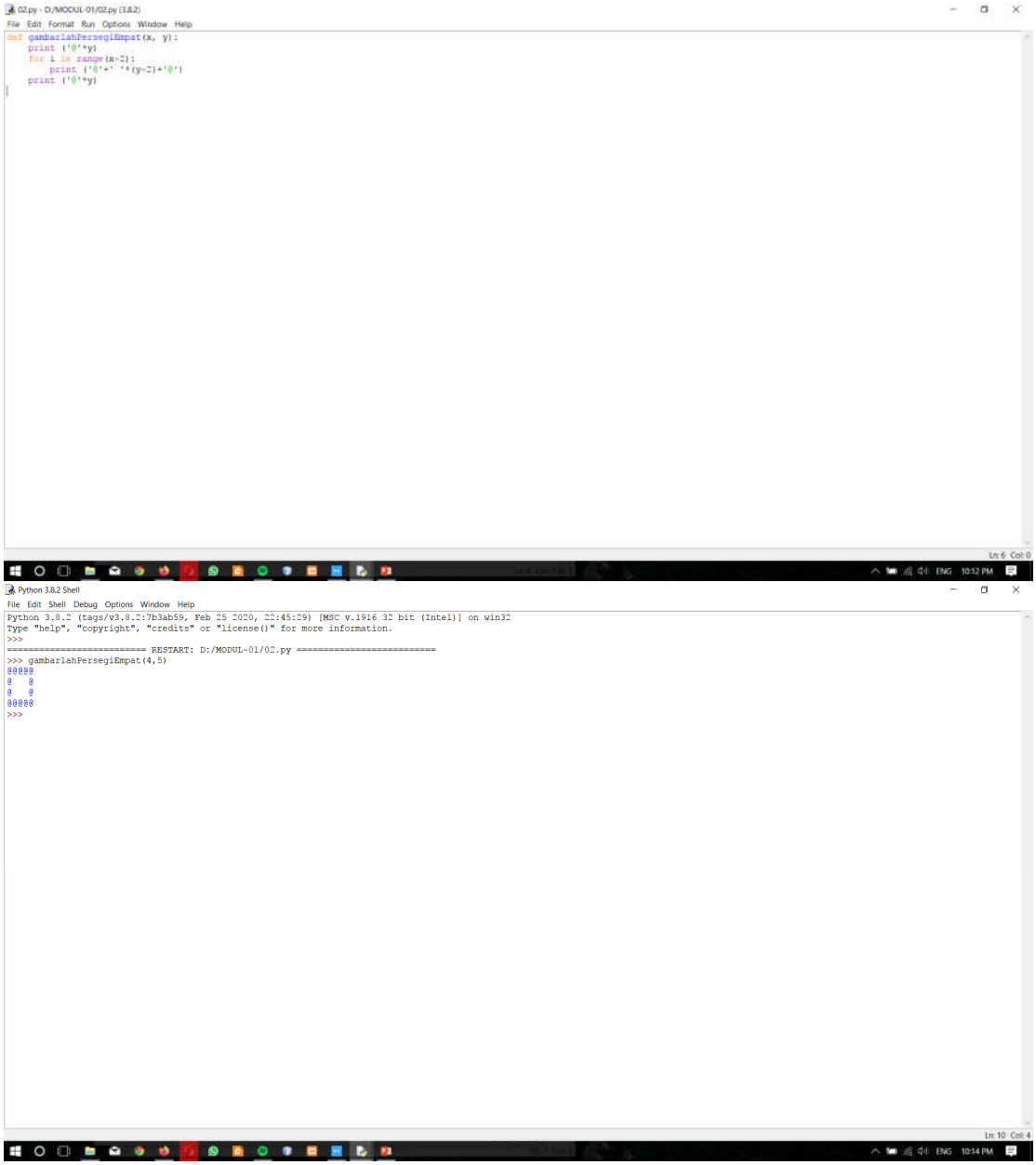
Kelas : B

Laporan Praktikum Algoritma dan Struktur Data
Modul 1

1.



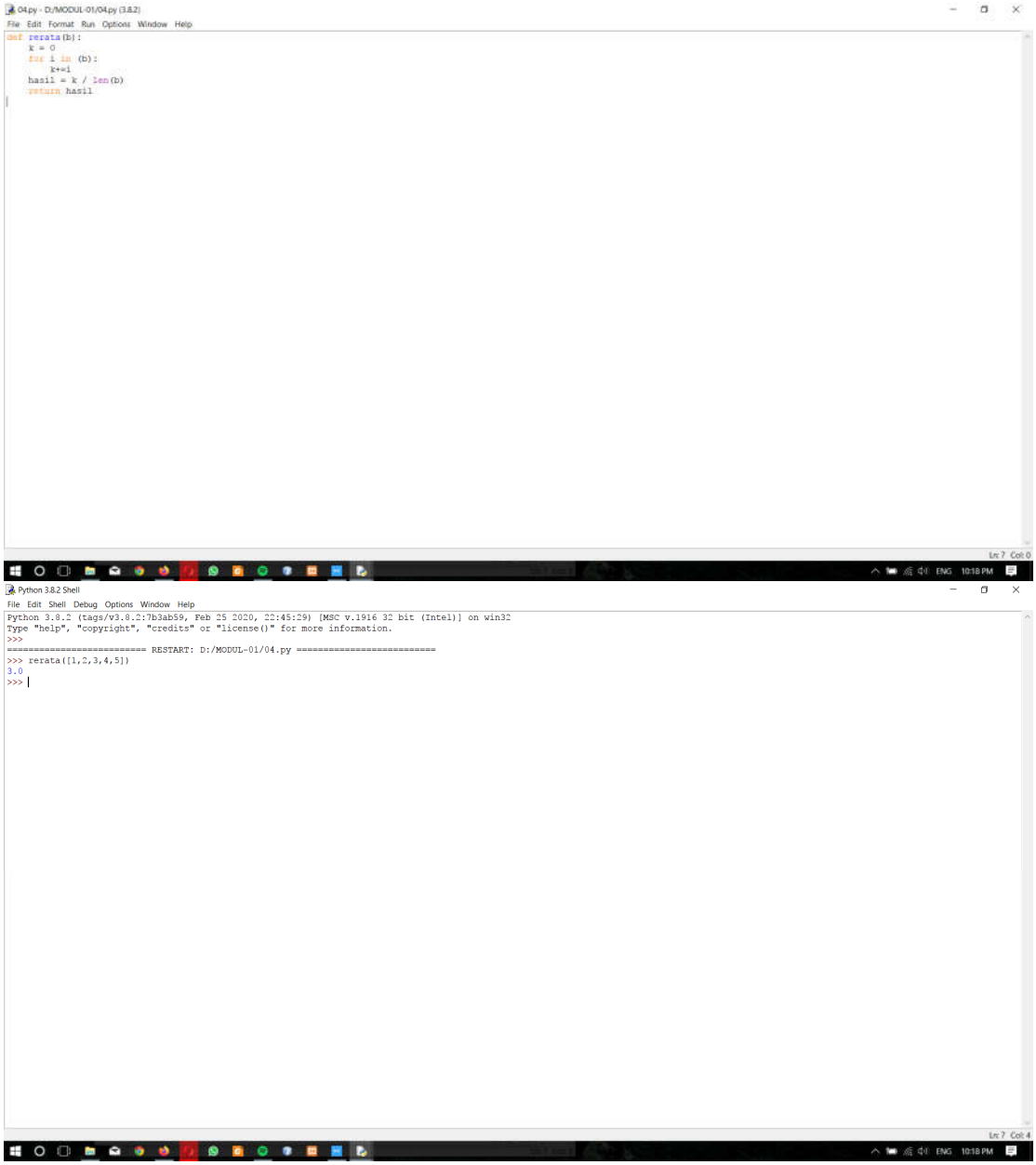
2.


02.py - D:/MODUL-01/02.py (3.8.2)
File Edit Format Run Options Window Help
def gambarlahPersegiEmpat(x, y):
print ('@'*y)
for i in range(x-2):
print ('@'+' '*(y-2)+'@')
print ('@'*y)
Ln: 6 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/02.py ==========
>>> gambarlahPersegiEmpat(4,5)
@@@@@
@ @
@ @
@@@@@
>>>
Ln: 10 Col: 4

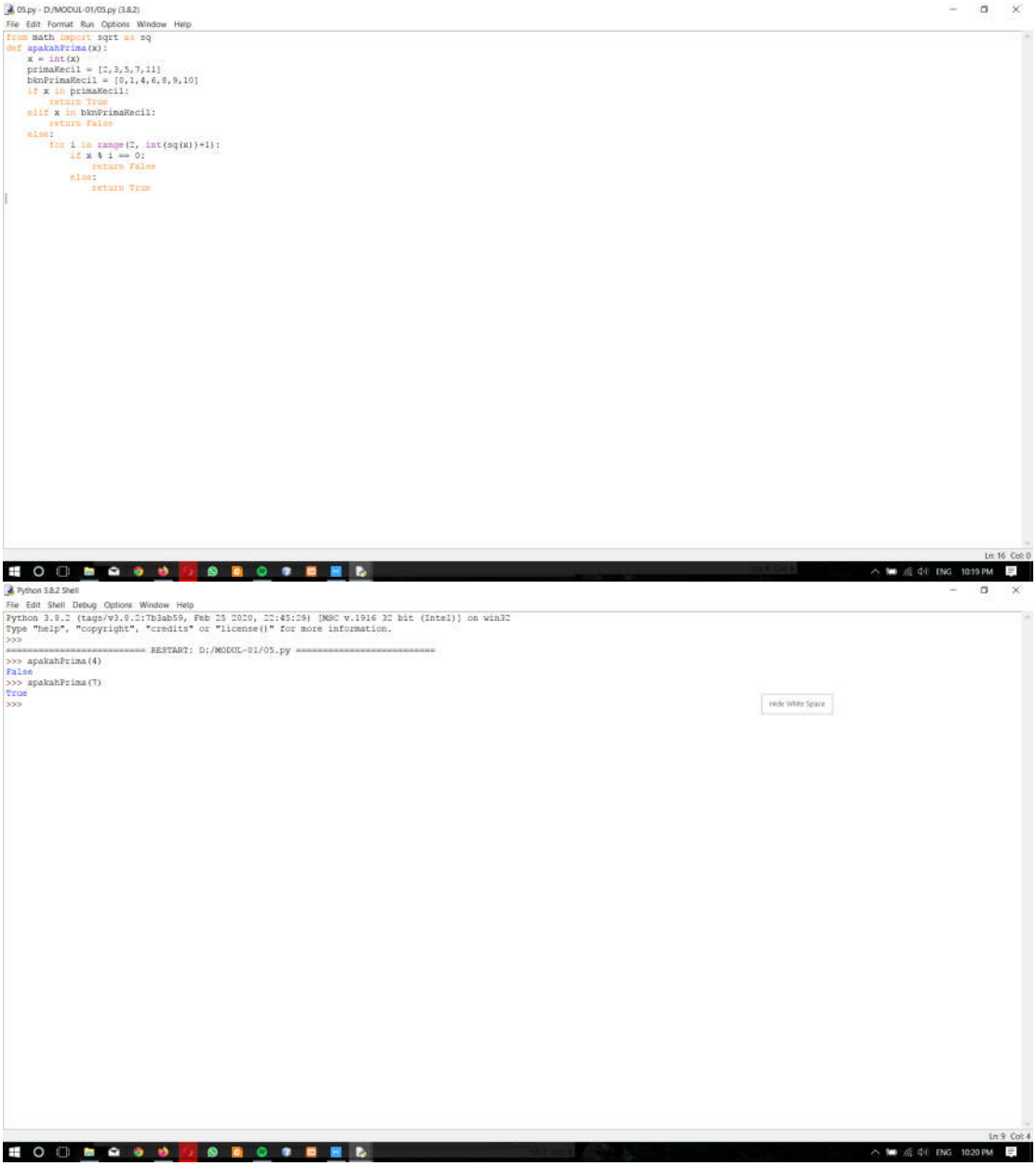
3.


01.py - D:/MODUL-01/03.py (3.8.2)
File Edit Format Run Options Window Help
##no 3a
def jumlahHurufVokal(x):
vokal = "AIUEOaiueo"
a = len(x)
b = ""
for k in x:
if k in vokal:
b+=k
c = len(b)
return (a,c)
##no 3b
def jumlahHurufKonsonan(x):
konsonan = "BCDFGHJKLMNPQRSTVWXYZbcdfghjklmnpqrstvwxyz"
a = len(x)
b = ""
for k in x:
if k in konsonan:
b+=k
c = len(b)
return (a,c)
Ln: 22 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/03.py ==========
>>> jumlahHurufVokal('budi')
(4, 2)
>>> jumlahHurufKonsonan("dodi")
(4, 2)
>>>
Ln: 9 Col: 4

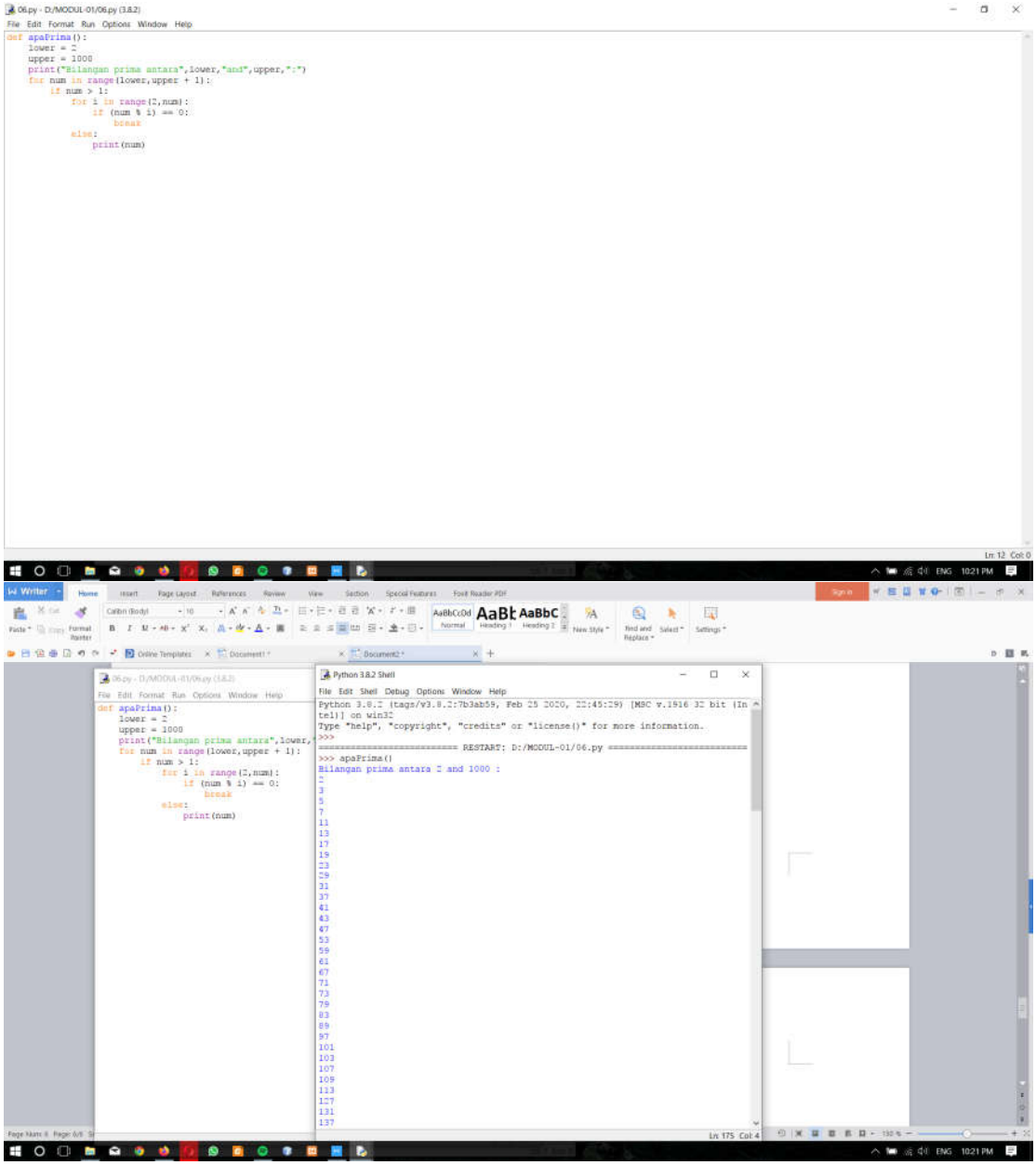
4.


04.py - D:/MODUL-01/04.py (3.8.2)
File Edit Format Run Options Window Help
def rerata(b):
k = 0
for i in (b):
k+=i
hasil = k / len(b)
return hasil
Ln: 7 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/04.py ==========
>>> rerata([1,2,3,4,5])
3.0
>>>
Ln: 7 Col: 4

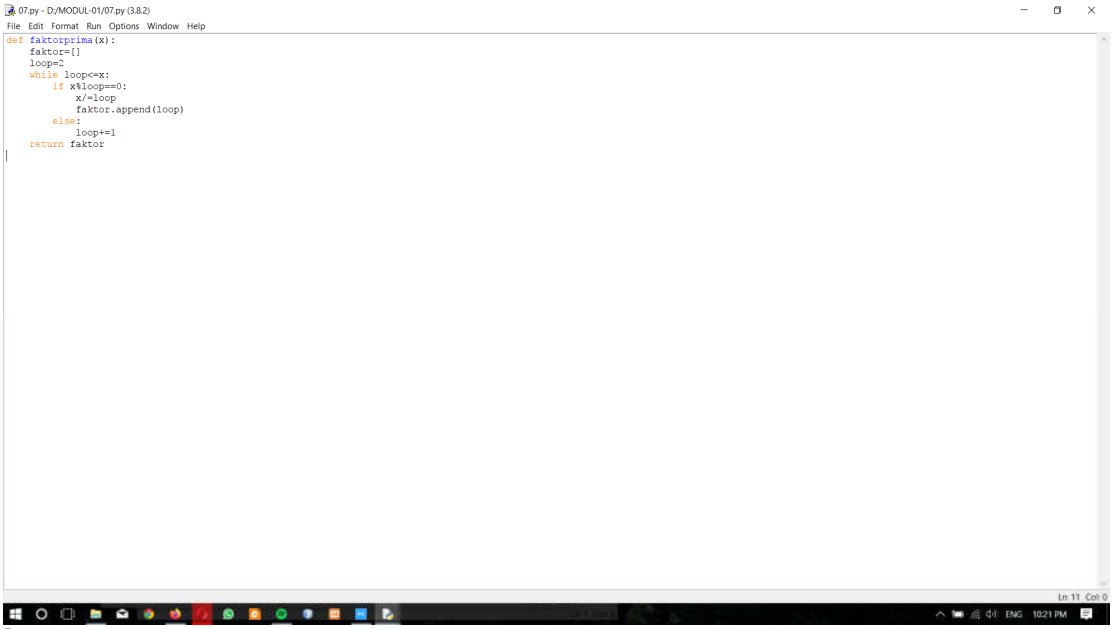
5.

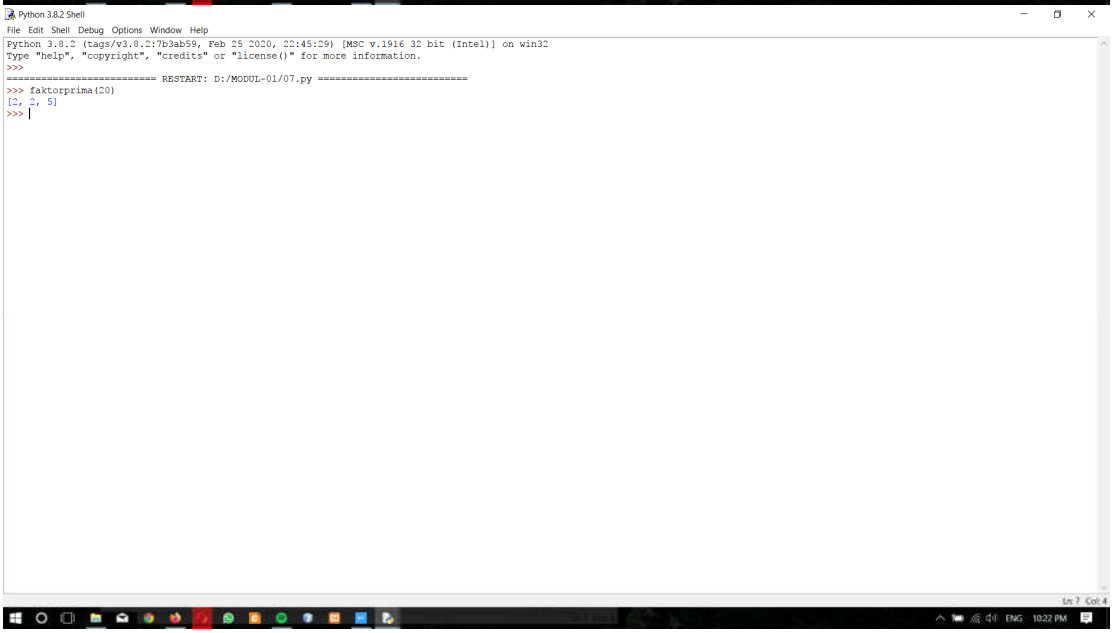

05.py - D:/MODUL-01/05.py (3.8.2)
File Edit Format Run Options Window Help
from math import sqrt as sq
def apakahPrima(x):
x = int(x)
primaKecil = [2,3,5,7,11]
bknPrimaKecil = [0,1,4,6,8,9,10]
if x in primaKecil:
return True
elif x in bknPrimaKecil:
return False
else:
for i in range(2, int(sq(x))+1):
if x % i == 0:
return False
else:
return True
Ln: 16 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/05.py ==========
>>> apakahPrima(4)
False
>>> apakahPrima(7)
True
>>>
Hide White Space
Ln: 9 Col: 4

6.

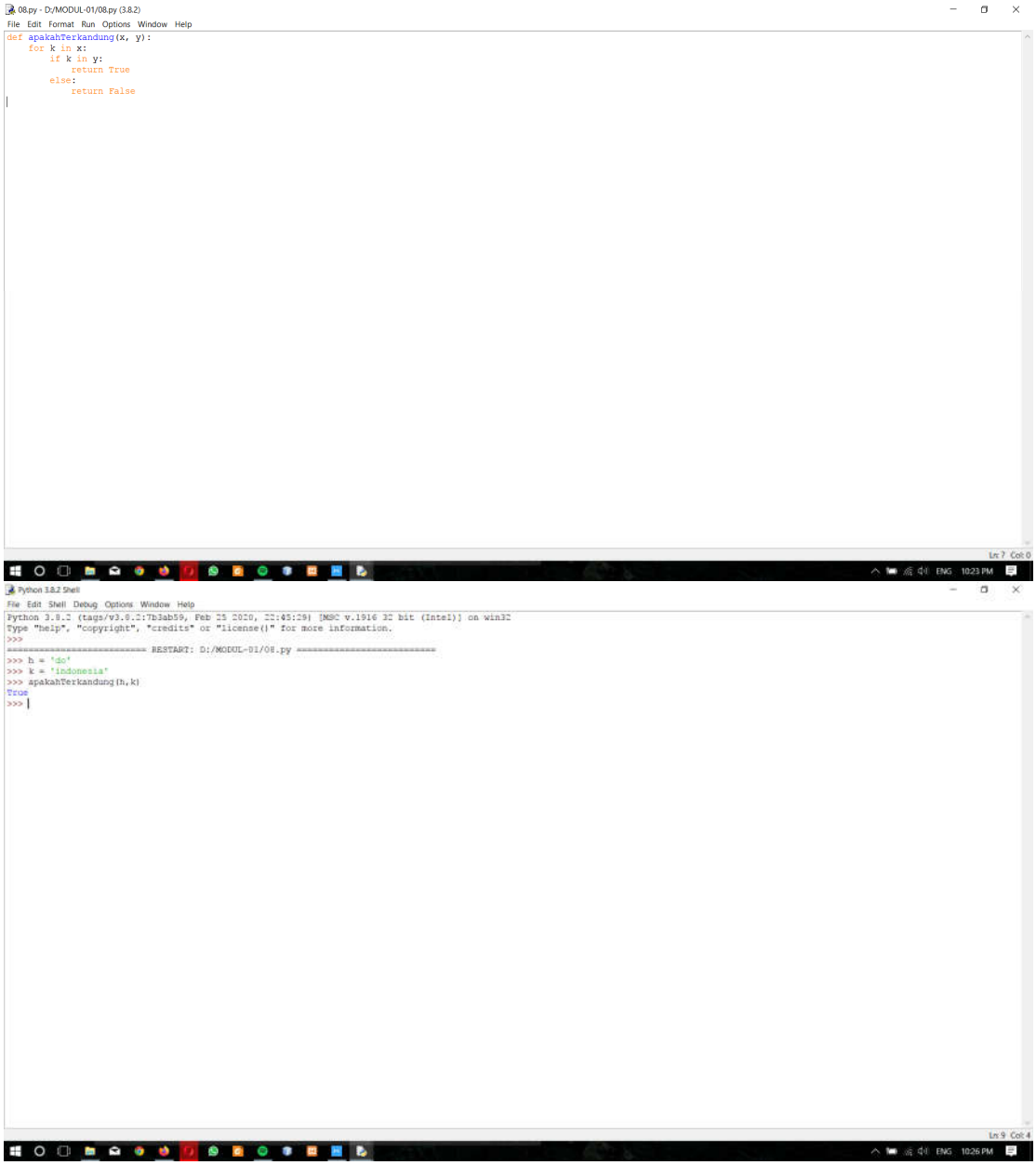

06.py - D:/MODUL-01/06.py (3.8.2)
File Edit Format Run Options Window Help
def apaPrima():
lower = 2
upper = 1000
print("Bilangan prima antara",lower,"and",upper,":")
for num in range(lower,upper + 1):
if num > 1:
for i in range(2,num):
if (num % i) == 0:
break
else:
print(num)
Ln: 12 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/06.py ==========
>>> apaPrima()
Bilangan prima antara 2 and 1000 :
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
Ln: 175 Col: 4

7.

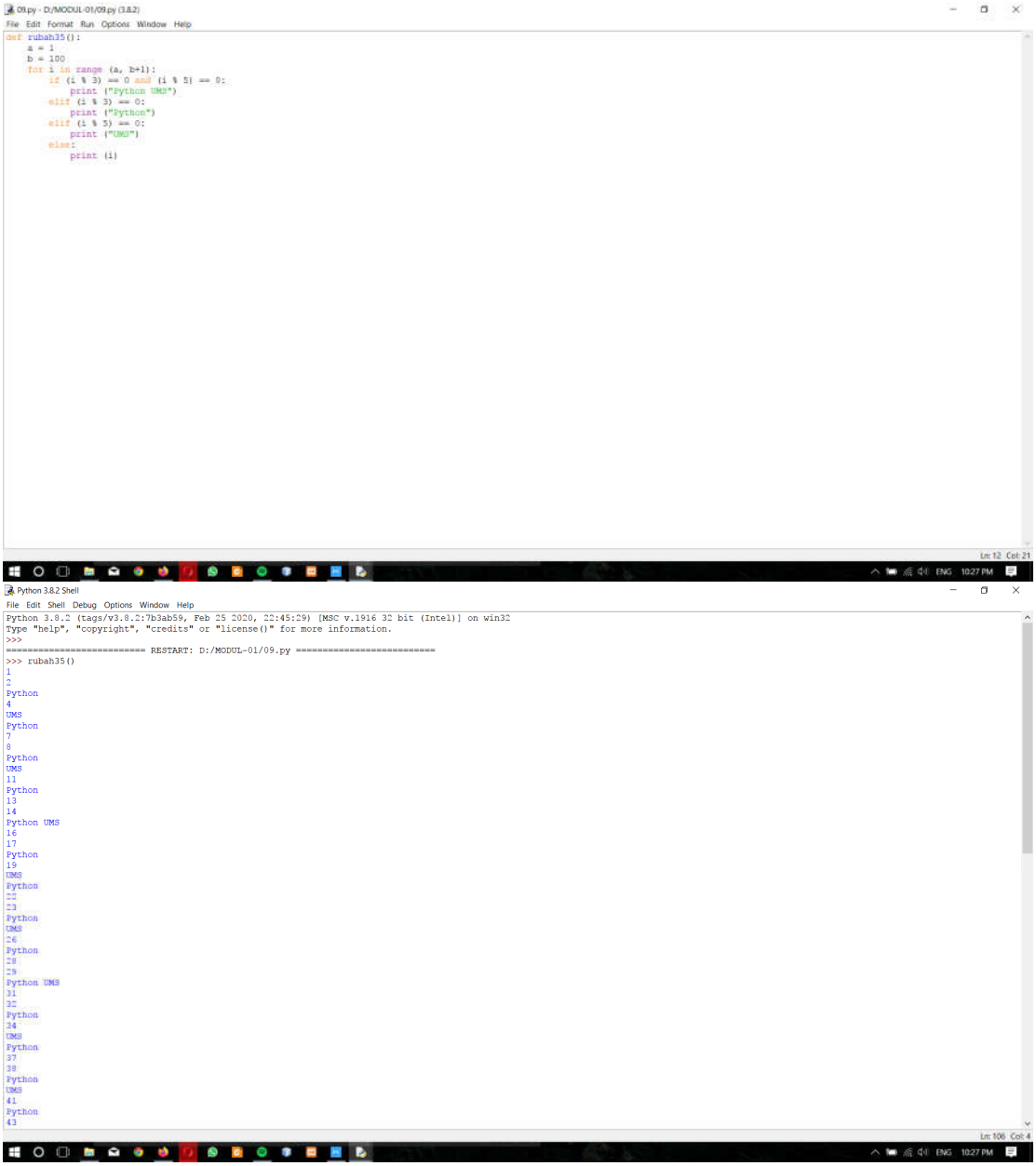

07.py - D:/MODUL-01/07.py (3.8.2)
File Edit Format Run Options Window Help
def faktorprima(x):
faktor=[]
loop=2
while loop<=x:
if x%loop==0:
x/=loop
faktor.append(loop)
else:
loop+=1
return faktor
Ln: 11 Col: 0


Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/07.py ==========
>>> faktorprima(20)
[2, 2, 5]
>>>
Ln: 7 Col: 4

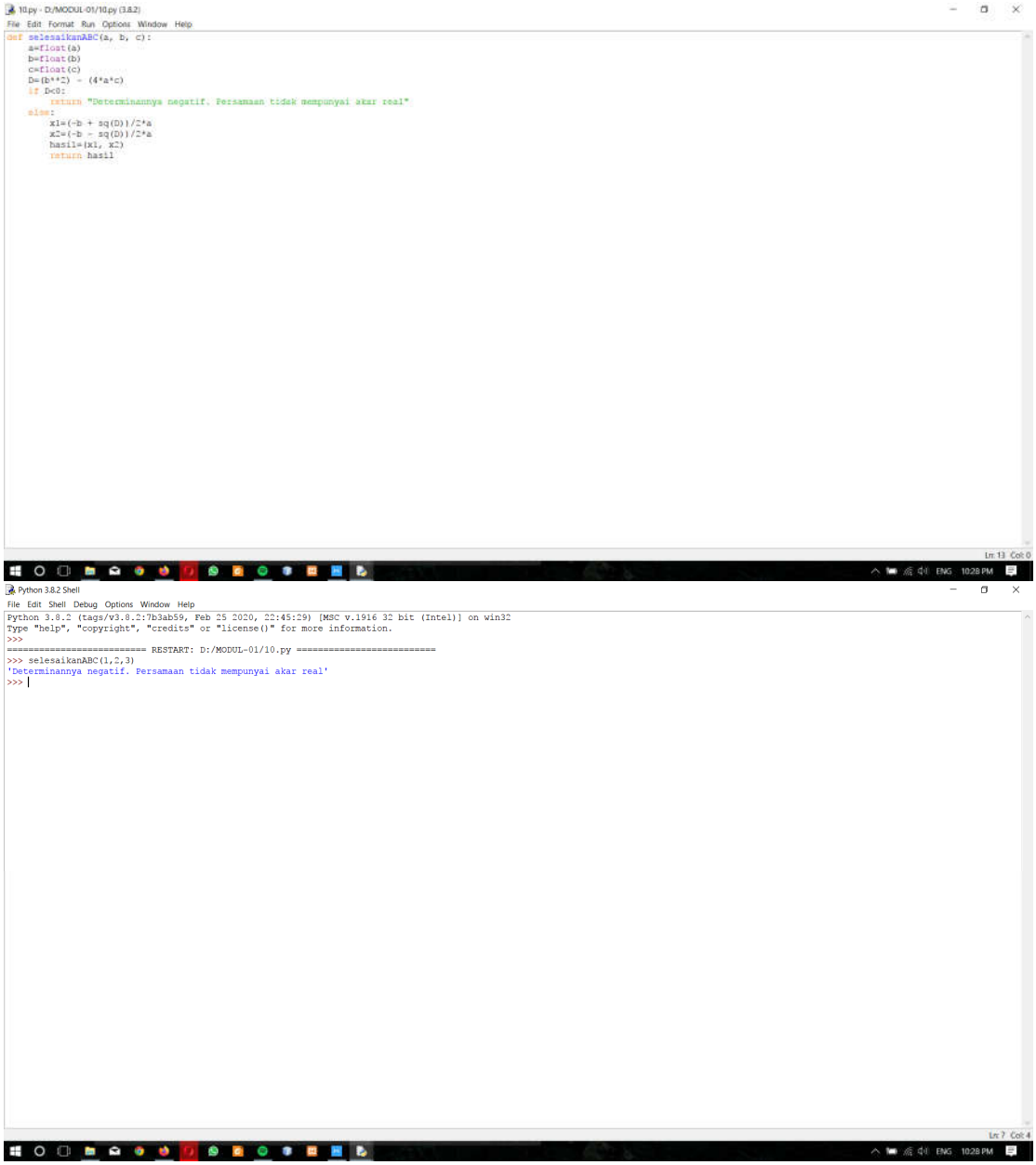
8.


08.py - D:/MODUL-01/08.py (3.8.2)
File Edit Format Run Options Window Help
def apakahTerkandung(x, y):
for k in x:
if k in y:
return True
else:
return False
Ln: 7 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/08.py ==========
>>> h = 'do'
>>> k = 'indonesia'
>>> apakahTerkandung(h,k)
True
>>>
Ln: 9 Col: 4

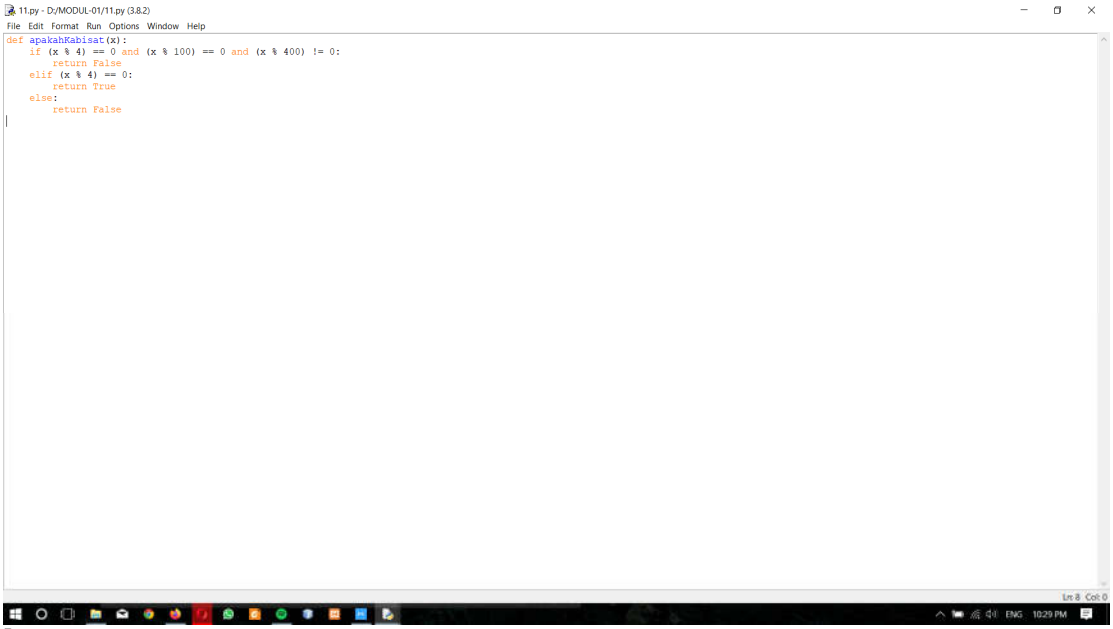
9.

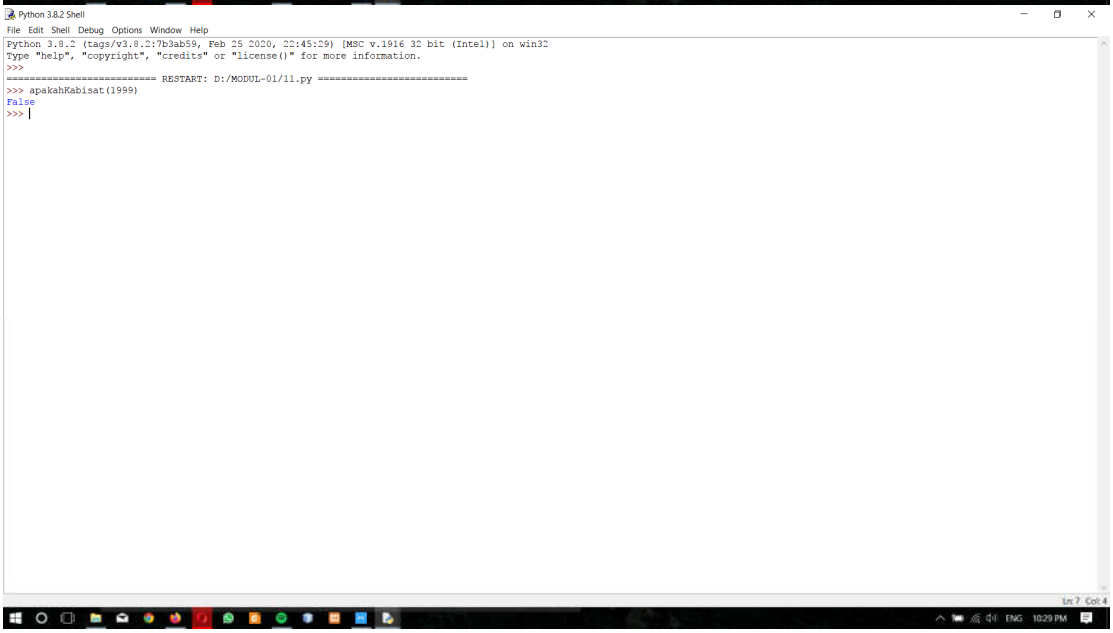

09.py - D:/MODUL-01/09.py (3.8.2)
File Edit Format Run Options Window Help
def rubah35():
a = 1
b = 100
for i in range (a, b+1):
if (i % 3) == 0 and (i % 5) == 0:
print ("Python UMS")
elif (i % 3) == 0:
print ("Python")
elif (i % 5) == 0:
print ("UMS")
else:
print (i)
Ln: 12 Col: 21
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/09.py ==========
>>> rubah35()
1
2
Python
4
UMS
Python
7
8
Python
UMS
11
Python
13
14
Python UMS
16
17
Python
19
UMS
Python
22
23
Python
UMS
26
Python
28
29
Python UMS
31
32
Python
34
UMS
Python
37
38
Python
UMS
41
Python
43
Ln: 106 Col: 4

10.


10.py - D:/MODUL-01/10.py (3.8.2)
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 "Determinannya negatif. Persamaan tidak mempunyai akar real"
else:
x1=(-b + sq(D))/2*a
x2=(-b - sq(D))/2*a
hasil=(x1, x2)
return hasil
Ln: 13 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/10.py ==========
>>> selesaikanABC(1,2,3)
'Determinannya negatif. Persamaan tidak mempunyai akar real'
>>>
Ln: 7 Col: 4

11.

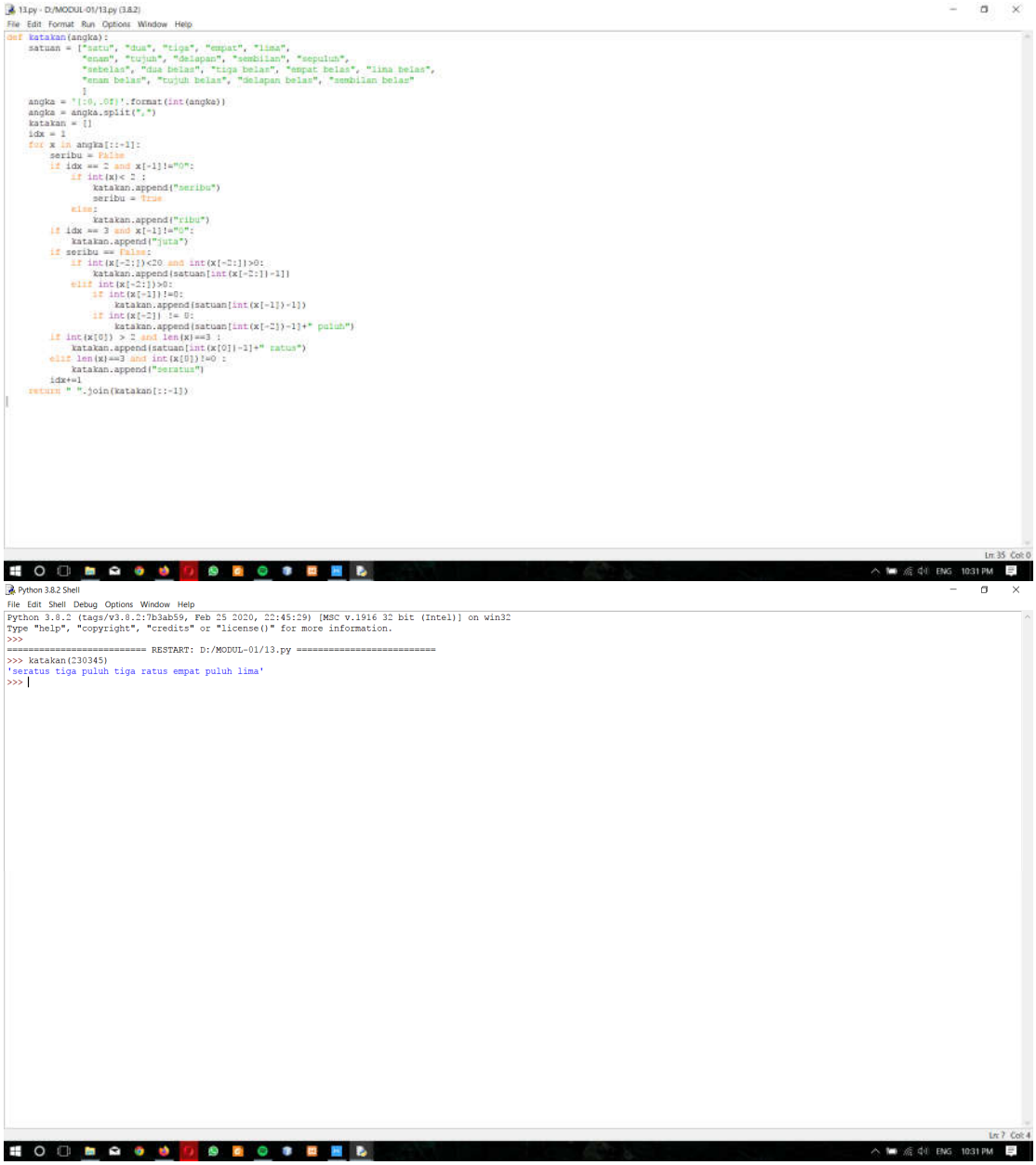

11.py - D:/MODUL-01/11.py (3.8.2)
File Edit Format Run Options Window Help
def apakahKabisat(x):
if (x % 4) == 0 and (x % 100) == 0 and (x % 400) != 0:
return False
elif (x % 4) == 0:
return True
else:
return False
Ln: 8 Col: 0
ENG 10:29 PM


Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/11.py ==========
>>> apakahKabisat(1999)
False
>>>
Ln: 7 Col: 4
ENG 10:29 PM

12.


12.py - D:/MODUL-01/12.py (3.8.2)
File Edit Format Run Options Window Help
from random import randint
print("""Permainan tebak angka.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba Tebak!""")
a = randint(1, 100)
for i in range (3):
b = int(input("Masukkan tebakkan ke-{}:>".format(i+1)))
if b == a:
print ("Ya. Anda benar.")
elif b > a:
if i >= 2:
print ("Itu terlalu besar. Kesempatan habis. Nilainya adalah",a)
else:
print ("Itu terlalu besar. Coba lagi")
else:
if i >= 2:
print ("Itu terlalu kecil. Kesempatan habis. Nilainya adalah",a)
else:
print ("Itu terlalu kecil. Coba lagi")
Ln: 19 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/12.py ==========
Permainan tebak angka.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba Tebak!
Masukkan tebakkan ke-1:>70
Itu terlalu kecil. Coba lagi
Masukkan tebakkan ke-2:>90
Itu terlalu kecil. Coba lagi
Masukkan tebakkan ke-3:>99
Ya. Anda benar.
>>>
Ln: 13 Col: 4

13.


13.py - D:/MODUL-01/13.py (3.8.2)
File Edit Format Run Options Window Help
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 = '{:0,.0f}'.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])
Ln: 35 Col: 0
ENG 10:31 PM
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/MODUL-01/13.py ==========
>>> katakan(230345)
'seratus tiga puluh tiga ratus empat puluh lima'
>>>
Ln: 7 Col: 4
ENG 10:31 PM

14.


14.py - D:\MODUL-01\14.py (3.8.2)
File Edit Format Run Options Window Help
def formatRupiah(n):
x = '{:,}'.format(n).replace(',', '.')
return "Rp " + x
Ln: 1 Col: 0
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:\MODUL-01\14.py ==========
>>> formatRupiah(14000)
'Rp 14.000'
>>>
Ln: 7 Col: 4