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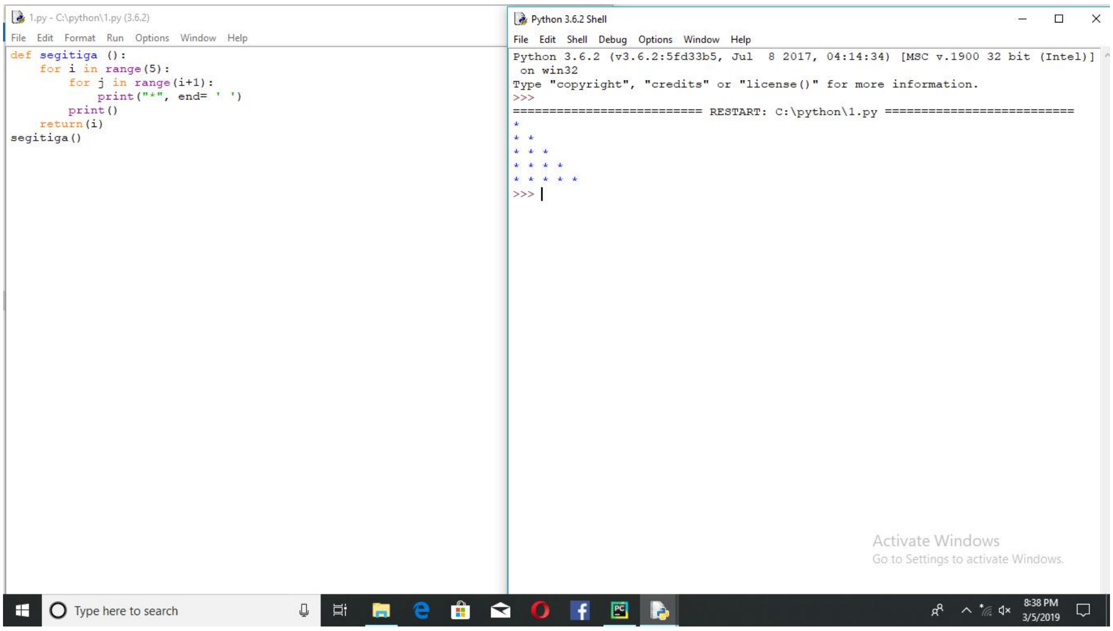
NIM : L200180008
Kelas : A

MODUL 1

1.


1.py - C:\python\1.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
8:38 PM
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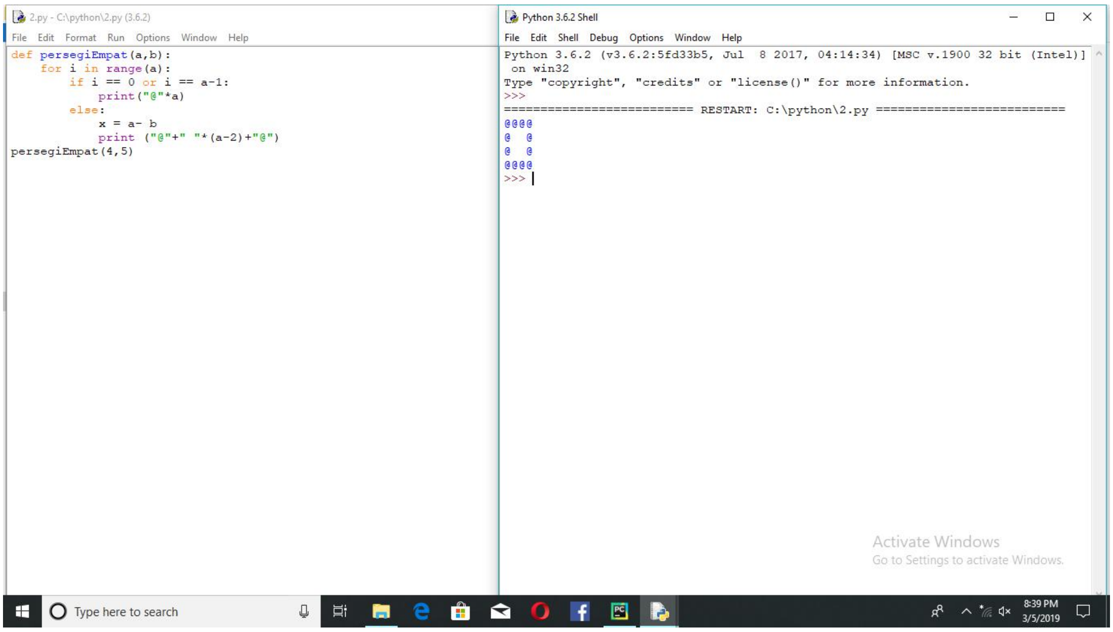
```
def segitiga ():
    for i in range(5):
        for j in range(i+1):
            print("*", end= ' ')
        print()
    return(i)
segitiga()
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================= RESTART: C:\python\1.py =========================
* 
* * 
* * * 
* * * * 
* * * * * 
>>> 
```

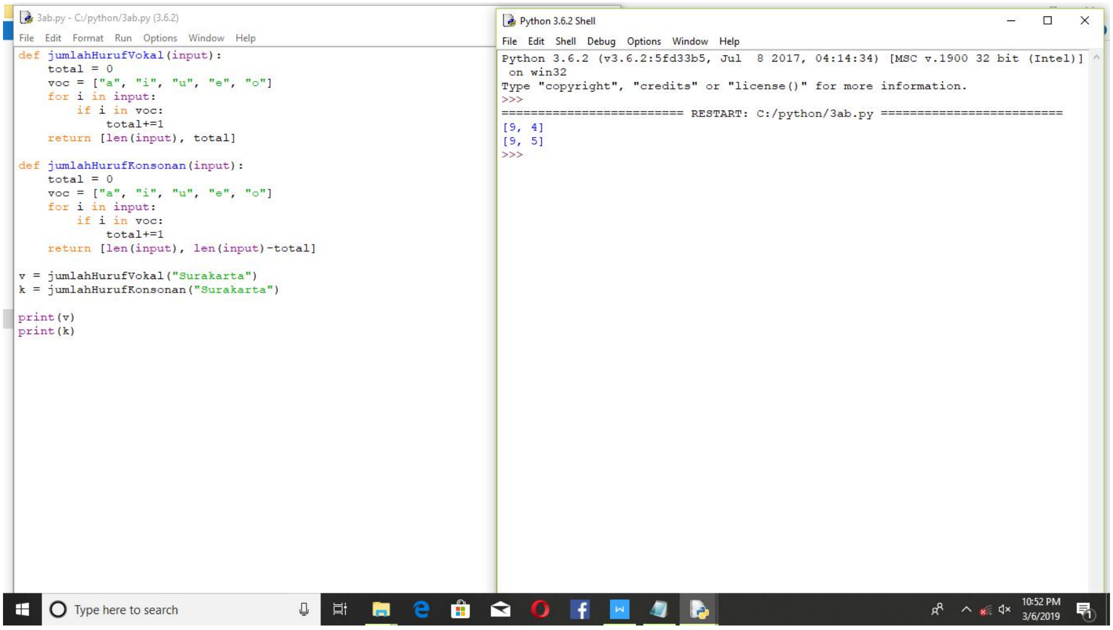
2.


2.py - C:\python\2.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
8:39 PM
3/5/2019

```
def persegiEmpat(a,b):
    for i in range(a):
        if i == 0 or i == a-1:
            print("@"*a)
        else:
            x = a- b
            print ("@"+" "*(a-2)+"@")
persegiEmpat(4,5)
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================= RESTART: C:\python\2.py =========================
@@@@
@  @
@  @
@@@@
>>> 
```

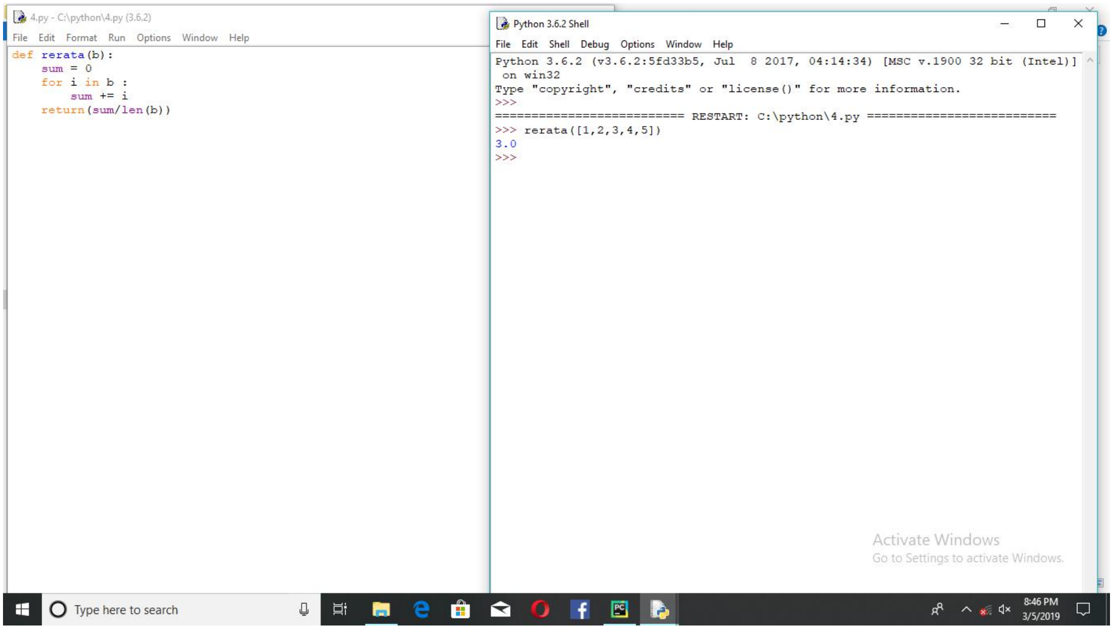
3.


3ab.py - C:/python/3ab.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Type here to search
10:52 PM
3/6/2019

```
def jumlahHurufVokal(input):
    total = 0
    voc = ["a", "i", "u", "e", "o"]
    for i in input:
        if i in voc:
            total+=1
    return [len(input), total]

def jumlahHurufKonsonan(input):
    total = 0
    voc = ["a", "i", "u", "e", "o"]
    for i in input:
        if i in voc:
            total+=1
    return [len(input), len(input)-total]

v = jumlahHurufVokal("Surakarta")
k = jumlahHurufKonsonan("Surakarta")

print(v)
print(k)
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================= RESTART: C:/python/3ab.py =========================
[9, 4]
[9, 5]
>>> 
```

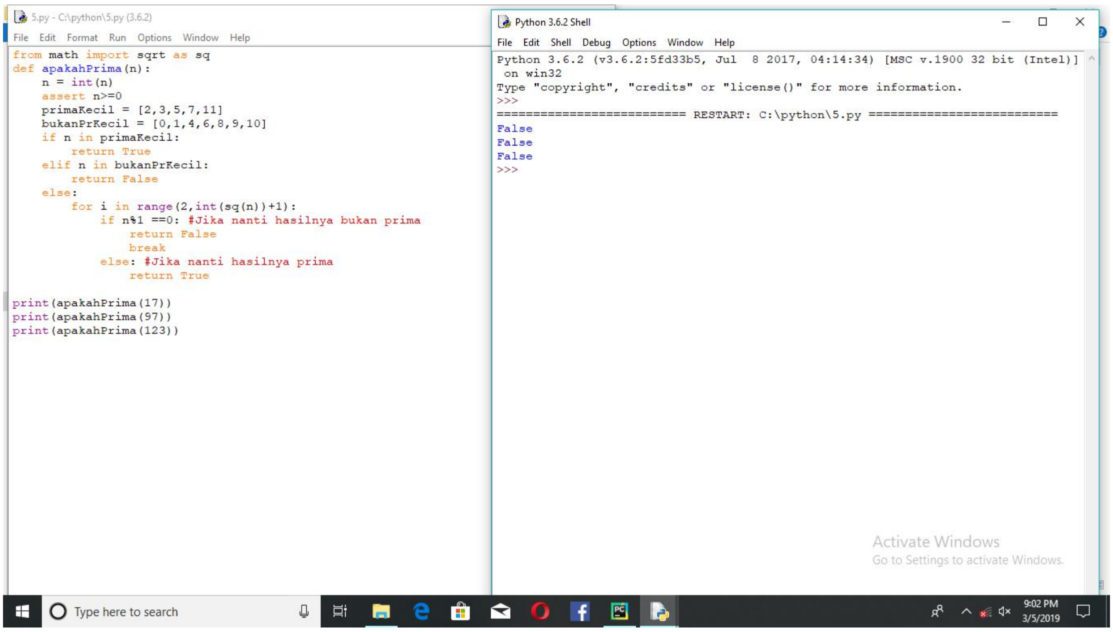
4.


4.py - C:\python\4.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
8:46 PM
3/5/2019

```
def rerata(b):
    sum = 0
    for i in b :
        sum += i
    return(sum/len(b))
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================= RESTART: C:\python\4.py =========================
>>> rerata([1,2,3,4,5])
3.0
>>> 
```

5.


5.py - C:\python\5.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
9:02 PM
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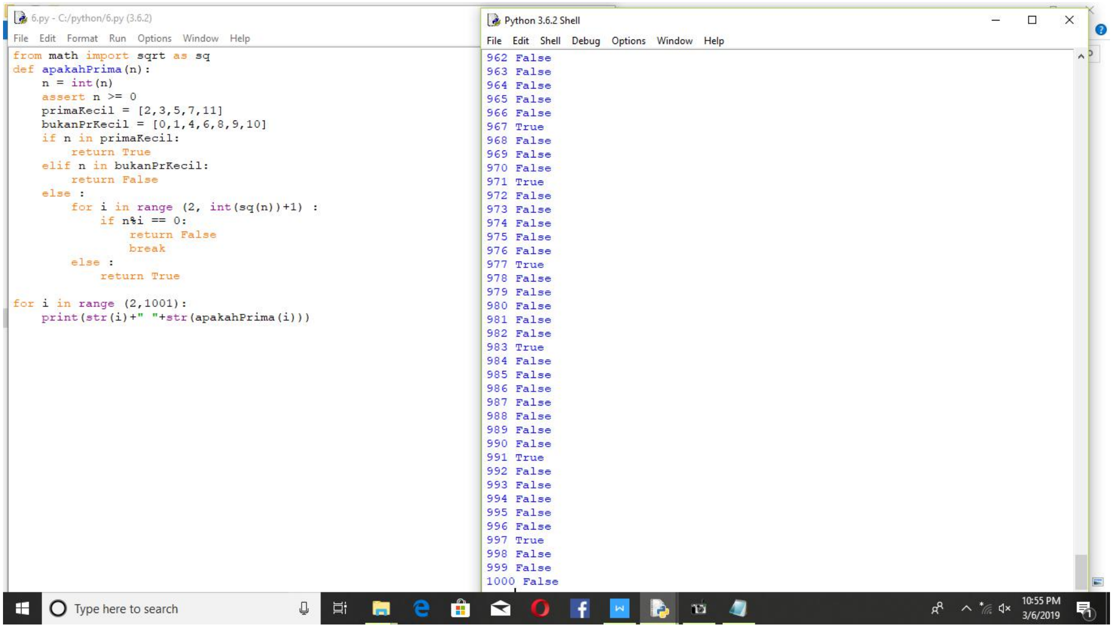
```python
from math import sqrt as sq
def apakahPrima(n):
    n = int(n)
    assert n>=0
    primaKecil = [2,3,5,7,11]
    bukanPrKecil = [0,1,4,6,8,9,10]
    if n in primaKecil:
        return True
    elif n in bukanPrKecil:
        return False
    else:
        for i in range(2,int(sq(n))+1):
            if n%1 ==0: #Jika nanti hasilnya bukan prima
                return False
                break
            else: #Jika nanti hasilnya prima
                return True

print(apakahPrima(17))
print(apakahPrima(97))
print(apakahPrima(123))
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================= RESTART: C:\python\5.py =========================
False
False
False
>>> 
```

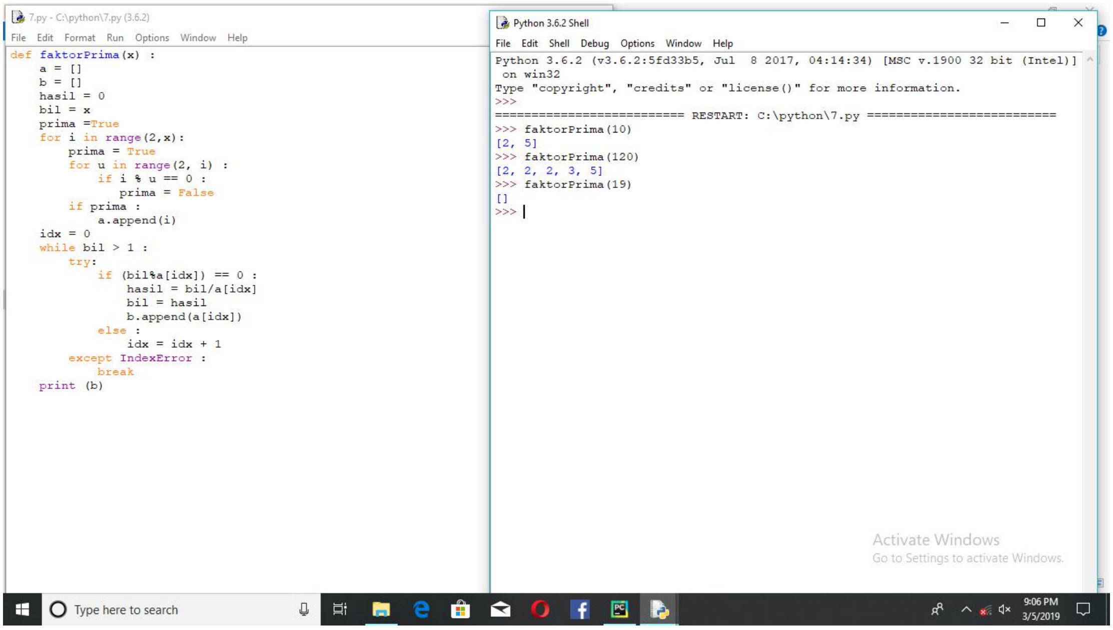
6.


6.py - C:/python/6.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Type here to search
10:55 PM
3/6/2019

```python
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
                break
        else :
            return True

for i in range (2,1001):
    print(str(i)+" "+str(apakahPrima(i)))
```

```
962 False
963 False
964 False
965 False
966 False
967 True
968 False
969 False
970 False
971 True
972 False
973 False
974 False
975 False
976 False
977 True
978 False
979 False
980 False
981 False
982 False
983 True
984 False
985 False
986 False
987 False
988 False
989 False
990 False
991 True
992 False
993 False
994 False
995 False
996 False
997 True
998 False
999 False
1000 False
```

7.



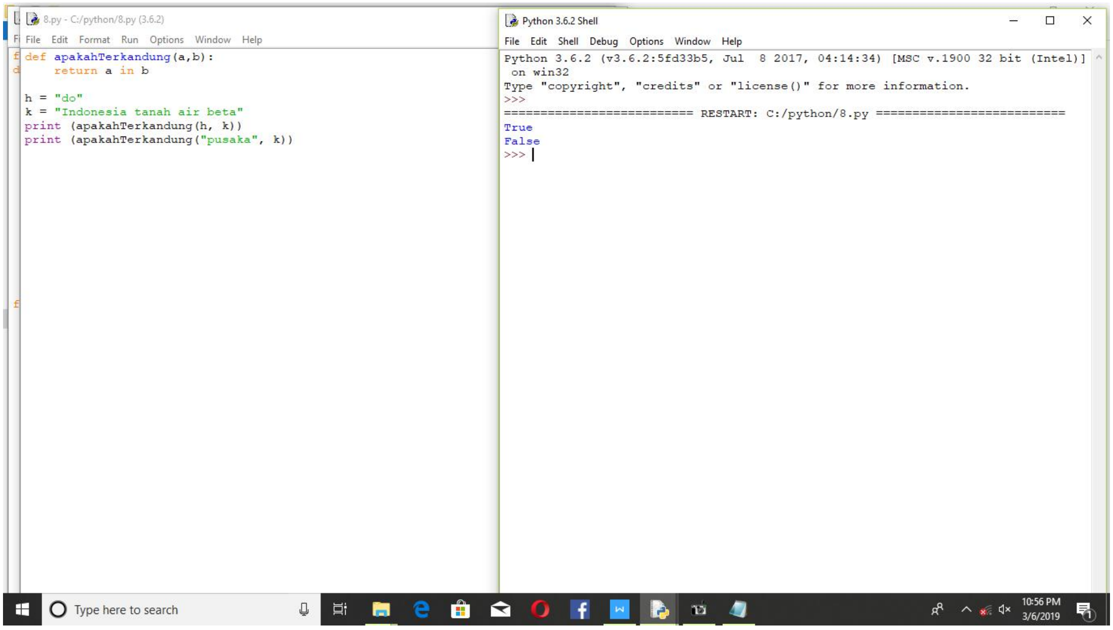
7.py - C:\python\7.py (3.6.2)
File Edit Format Run Options Window Help

```python
def faktorPrima(x) :
    a = []
    b = []
    hasil = 0
    bil = x
    prima =True
    for i in range(2,x):
        prima = True
        for u in range(2, i) :
            if i % u == 0 :
               prima = False
        if prima :
            a.append(i)
    idx = 0
    while bil > 1 :
        try:
            if (bil%a[idx]) == 0 :
                hasil = bil/a[idx]
                bil = hasil
                b.append(a[idx])
            else :
                idx = idx + 1
        except IndexError :
            break
    print (b)
```

Python 3.6.2 Shell
File Edit Shell Debug Options Window Help

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================= RESTART: C:\python\7.py =========================
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 2, 3, 5]
>>> faktorPrima(19)
[]
>>> 
```

8.



8.py - C:/python/8.py (3.6.2)
File Edit Format Run Options Window Help

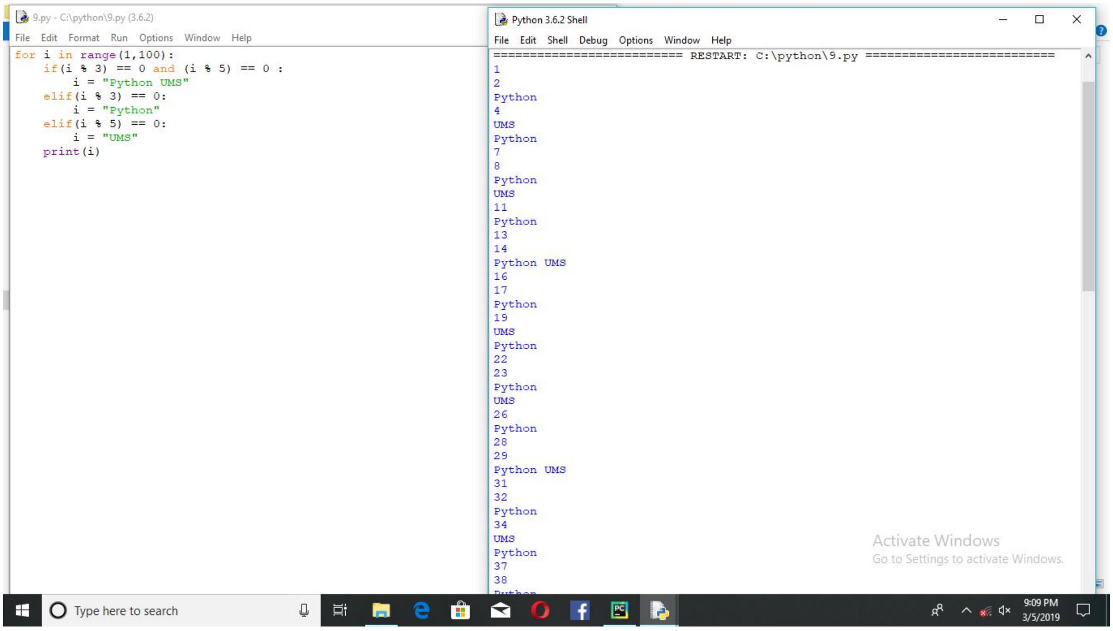
```python
def apakahTerkandung(a,b):
    return a in b

h = "do"
k = "Indonesia tanah air beta"
print (apakahTerkandung(h, k))
print (apakahTerkandung("pusaka", k))
```

Python 3.6.2 Shell
File Edit Shell Debug Options Window Help

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================= RESTART: C:/python/8.py =========================
True
False
>>> 
```

Type here to search
10:56 PM
3/6/2019

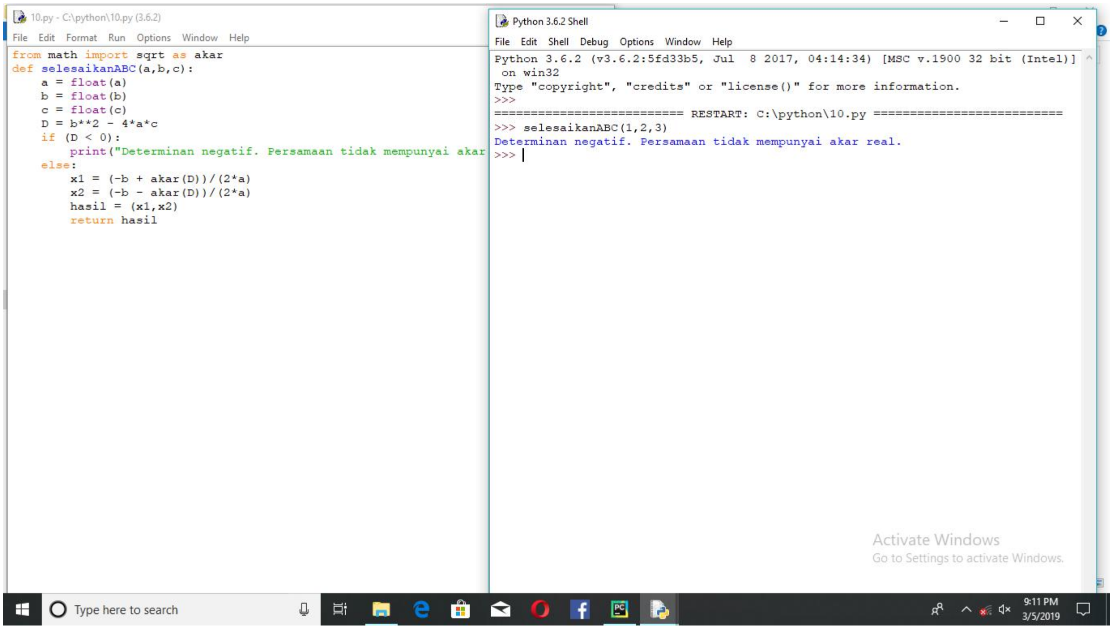
9.


9.py - C:\python\9.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
9:09 PM
3/5/2019

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

```
========================== RESTART: C:\python\9.py ==========================
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
```

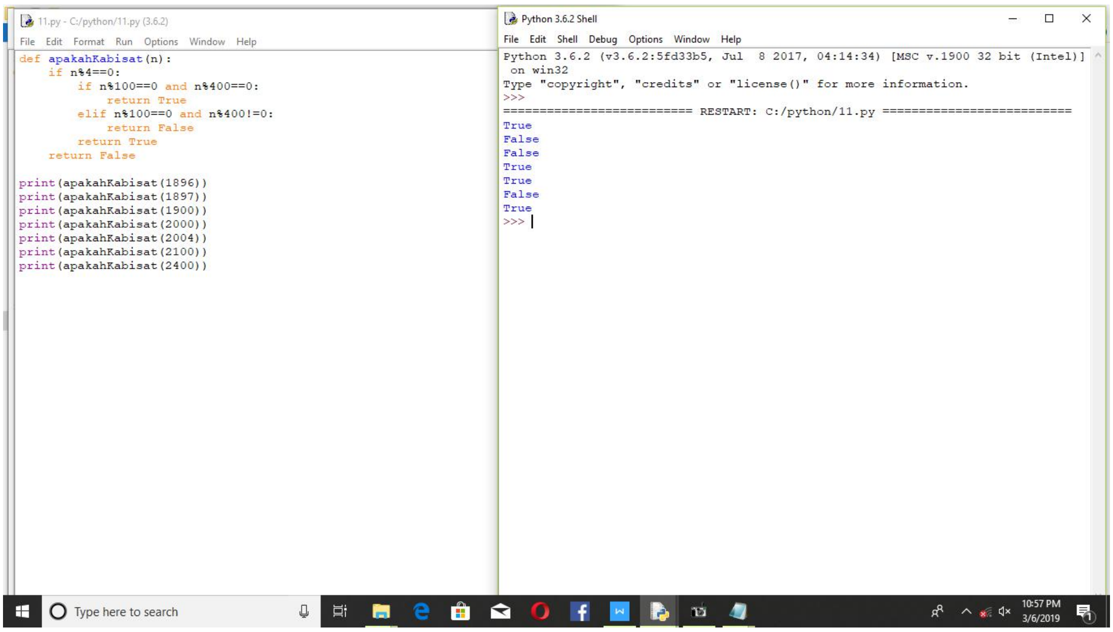
10.


10.py - C:\python\10.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
9:11 PM
3/5/2019

```
from math import sqrt as akar
def selesaikanABC(a,b,c):
    a = float(a)
    b = float(b)
    c = float(c)
    D = b**2 - 4*a*c
    if (D < 0):
        print("Determinan negatif. Persamaan tidak mempunyai akar
    else:
        x1 = (-b + akar(D))/(2*a)
        x2 = (-b - akar(D))/(2*a)
        hasil = (x1,x2)
        return hasil
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================= RESTART: C:\python\10.py =========================
>>> selesaikanABC(1,2,3)
Determinan negatif. Persamaan tidak mempunyai akar real.
>>> 
```

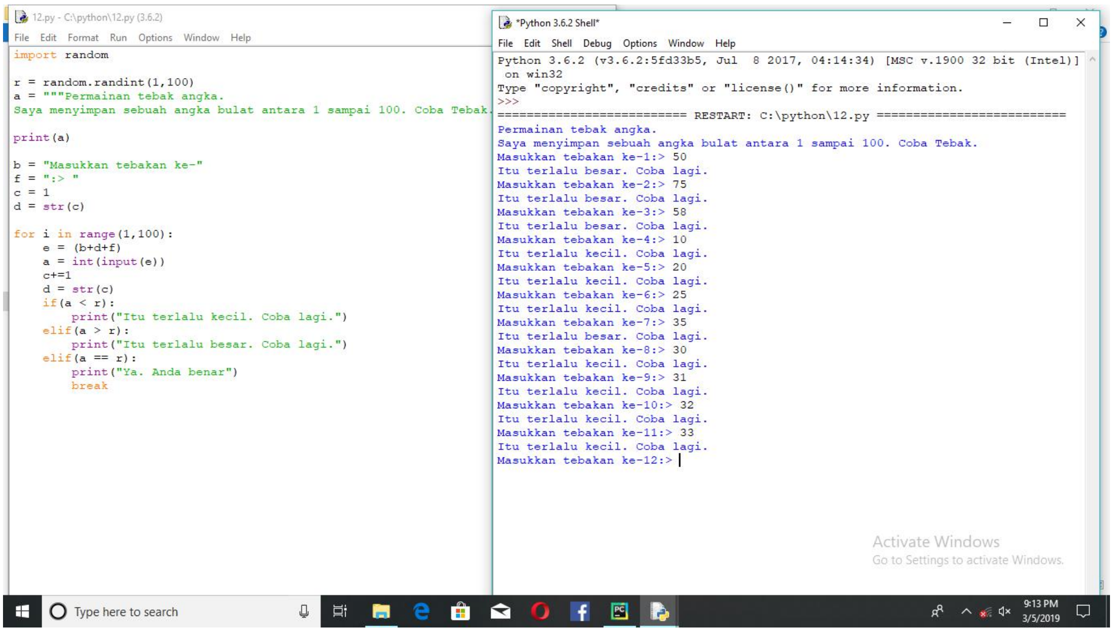
11.


11.py - C:/python/11.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Type here to search
10:57 PM
3/6/2019

```python
def apakahKabisat(n):
    if n%4==0:
        if n%100==0 and n%400==0:
            return True
        elif n%100==0 and n%400!=0:
            return False
        return True
    return False

print(apakahKabisat(1896))
print(apakahKabisat(1897))
print(apakahKabisat(1900))
print(apakahKabisat(2000))
print(apakahKabisat(2004))
print(apakahKabisat(2100))
print(apakahKabisat(2400))
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================== RESTART: C:/python/11.py ==========================
True
False
False
True
True
False
True
>>> 
```

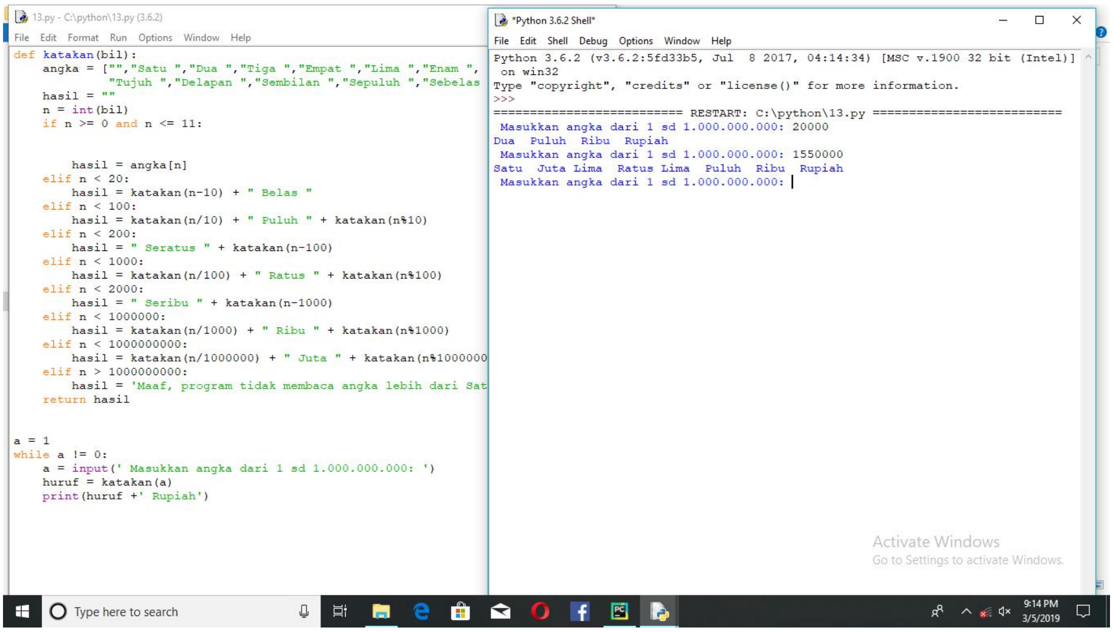
12.


12.py - C:\python\12.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
9:13 PM
3/5/2019

```python
import random

r = random.randint(1,100)
a = """Permainan tebak angka.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba Tebak.

print(a)

b = "Masukkan tebakan ke-"
f = ":> "
c = 1
d = str(c)

for i in range(1,100):
    e = (b+d+f)
    a = int(input(e))
    c+=1
    d = str(c)
    if(a < r):
        print("Itu terlalu kecil. Coba lagi.")
    elif(a > r):
        print("Itu terlalu besar. Coba lagi.")
    elif(a == r):
        print("Ya. Anda benar")
        break
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> 
========================== RESTART: C:\python\12.py ==========================
Permainan tebak angka.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba Tebak.
Masukkan tebakan ke-1:> 50
Itu terlalu besar. Coba lagi.
Masukkan tebakan ke-2:> 75
Itu terlalu besar. Coba lagi.
Masukkan tebakan ke-3:> 58
Itu terlalu besar. Coba lagi.
Masukkan tebakan ke-4:> 10
Itu terlalu kecil. Coba lagi.
Masukkan tebakan ke-5:> 20
Itu terlalu kecil. Coba lagi.
Masukkan tebakan ke-6:> 25
Itu terlalu kecil. Coba lagi.
Masukkan tebakan ke-7:> 35
Itu terlalu besar. Coba lagi.
Masukkan tebakan ke-8:> 30
Itu terlalu kecil. Coba lagi.
Masukkan tebakan ke-9:> 31
Itu terlalu kecil. Coba lagi.
Masukkan tebakan ke-10:> 32
Itu terlalu kecil. Coba lagi.
Masukkan tebakan ke-11:> 33
Itu terlalu kecil. Coba lagi.
Masukkan tebakan ke-12:> 
```

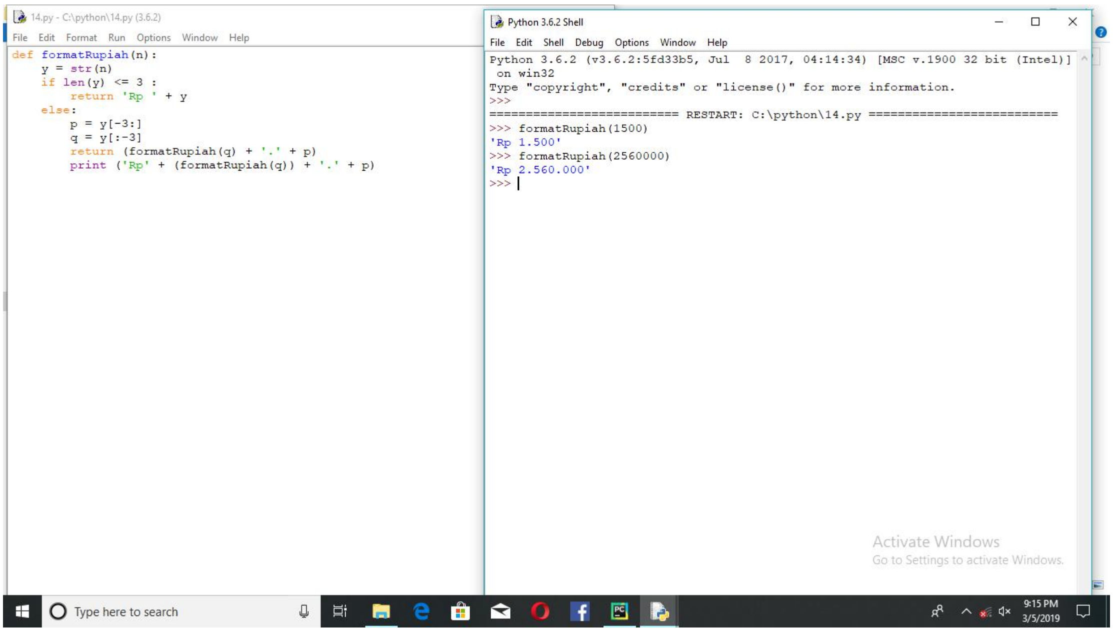
13.


13.py - C:\python\13.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
9:14 PM
3/5/2019

```
def katakan(bil):
    angka = ["","Satu ","Dua ","Tiga ","Empat ","Lima ","Enam ",
             "Tujuh ","Delapan ","Sembilan ","Sepuluh ","Sebelas
    hasil = ""
    n = int(bil)
    if n >= 0 and n <= 11:


        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 < 1000000:
        hasil = katakan(n/1000) + " Ribu " + katakan(n%1000)
    elif n < 1000000000:
        hasil = katakan(n/1000000) + " Juta " + katakan(n%1000000
    elif n > 1000000000:
        hasil = 'Maaf, program tidak membaca angka lebih dari Sat
    return hasil


a = 1
while a != 0:
    a = input(' Masukkan angka dari 1 sd 1.000.000.000: ')
    huruf = katakan(a)
    print(huruf +' Rupiah')
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========================= RESTART: C:\python\13.py =========================
 Masukkan angka dari 1 sd 1.000.000.000: 20000
Dua  Puluh  Ribu  Rupiah
 Masukkan angka dari 1 sd 1.000.000.000: 1550000
Satu  Juta Lima  Ratus Lima  Puluh  Ribu  Rupiah
 Masukkan angka dari 1 sd 1.000.000.000: 
```

14.


14.py - C:\python\14.py (3.6.2)
File Edit Format Run Options Window Help
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Activate Windows
Go to Settings to activate Windows.
Type here to search
9:15 PM
3/5/2019

```
def formatRupiah(n):
    y = str(n)
    if len(y) <= 3 :
        return 'Rp ' + y
    else:
        p = y[-3:]
        q = y[:-3]
        return (formatRupiah(q) + '.' + p)
        print ('Rp' + (formatRupiah(q)) + '.' + p)
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========================= RESTART: C:\python\14.py =========================
>>> formatRupiah(1500)
'Rp 1.500'
>>> formatRupiah(2560000)
'Rp 2.560.000'
>>> 
```