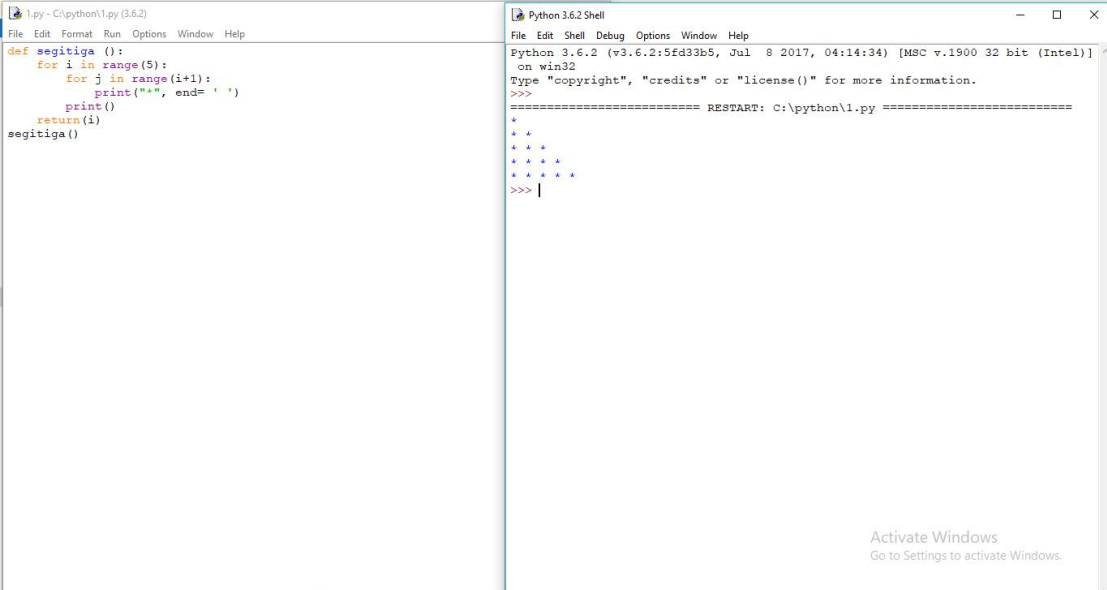


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Kelas D

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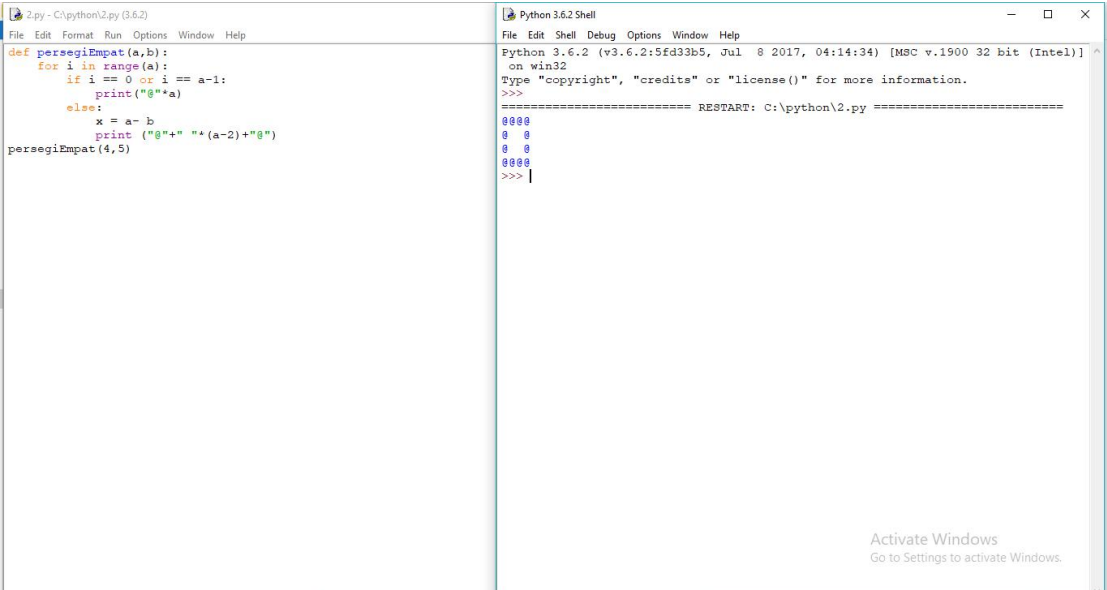
- 

The screenshot shows a Python IDE with two windows. The left window, titled '1.py - C:\python\1.py (3.6.2)', contains the following code:

```
def segitiga():  
    for i in range(5):  
        for j in range(i+1):  
            print(" ", end=" ")  
            print()  
        return(i)  
segitiga()
```

The right window, titled 'Python 3.6.2 Shell', shows the output of the program:

```
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 =====  
*  
* *  
* * *  
* * * *  
* * * * *  
>>> |
```

The taskbar at the bottom shows the Windows search bar and various application icons. The system clock indicates 8:38 PM on 3/5/2019.
- 

The screenshot shows a Python IDE with two windows. The left window, titled '2.py - C:\python\2.py (3.6.2)', contains the following code:

```
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)
```

The right window, titled 'Python 3.6.2 Shell', shows the output of the program:

```
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 =====  
@@@@  
@ @  
@ @  
@@@@  
>>> |
```

The taskbar at the bottom shows the Windows search bar and various application icons. The system clock indicates 8:39 PM on 3/5/2019.

```
3ab.py - C:/python/3ab.py (3.6.2)
File Edit Format Run Options Window Help
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 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/3ab.py =====
>>> [9, 4]
>>> [9, 5]
>>>
```

3.

```
4.py - C:/python/4.py (3.6.2)
File Edit Format Run Options Window Help
def rerata(b):
    sum = 0
    for i in b:
        sum += i
    return (sum/len(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/4.py =====
>>> rerata([1,2,3,4,5])
3.0
>>>
```

4.

5.

```

5.py - C:\python\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]
    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: #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 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\5.py =====
False
False
False
>>>

```

6.

```

6.py - C:\python\6.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]
    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)))

Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
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
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
def apakahTerkandung(a,b):
return a in b
h = "dc"
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
>>> |

9.

```
9.py - C:\python\9.py (3.6.2)
File Edit Format Run Options Window Help
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)
```

```
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
===== RESTART: C:\python\9.py =====
1
2
3 Python
4
5 UMS
6 Python
7
8 Python
9 UMS
10
11 Python
12
13 UMS
14 Python UMS
15
16 Python
17
18 UMS
19 Python
20
21 UMS
22 Python
23
24 Python
25 UMS
26 Python
27
28 UMS
29 Python UMS
30
31 Python
32
33 UMS
34 Python
35
36 UMS
37 Python
38
39 Python
```

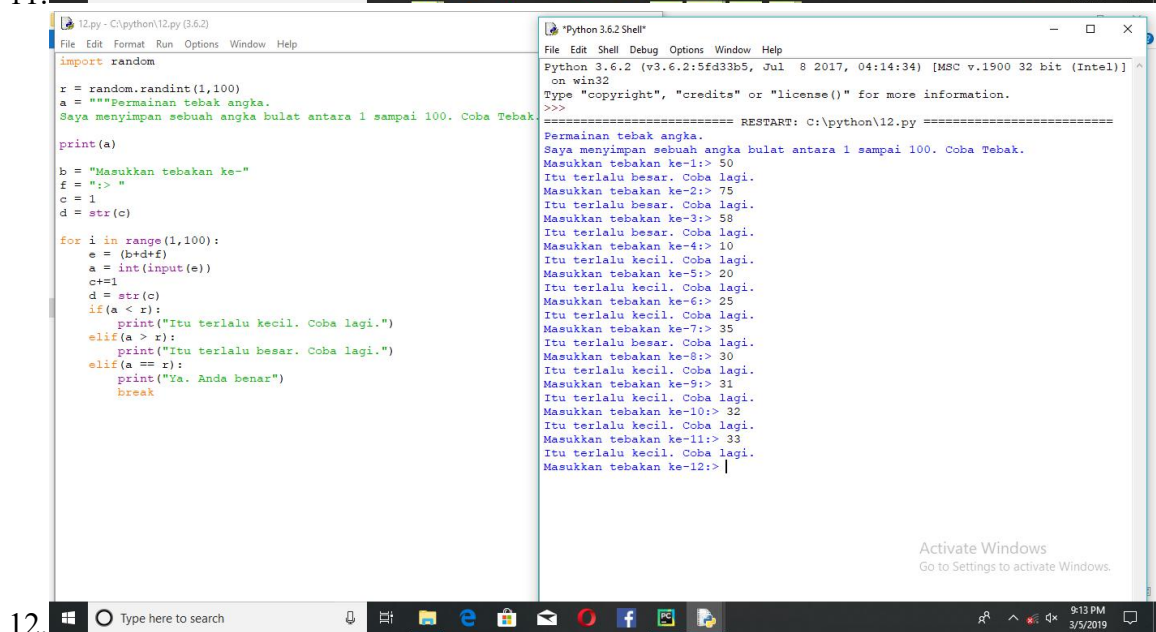
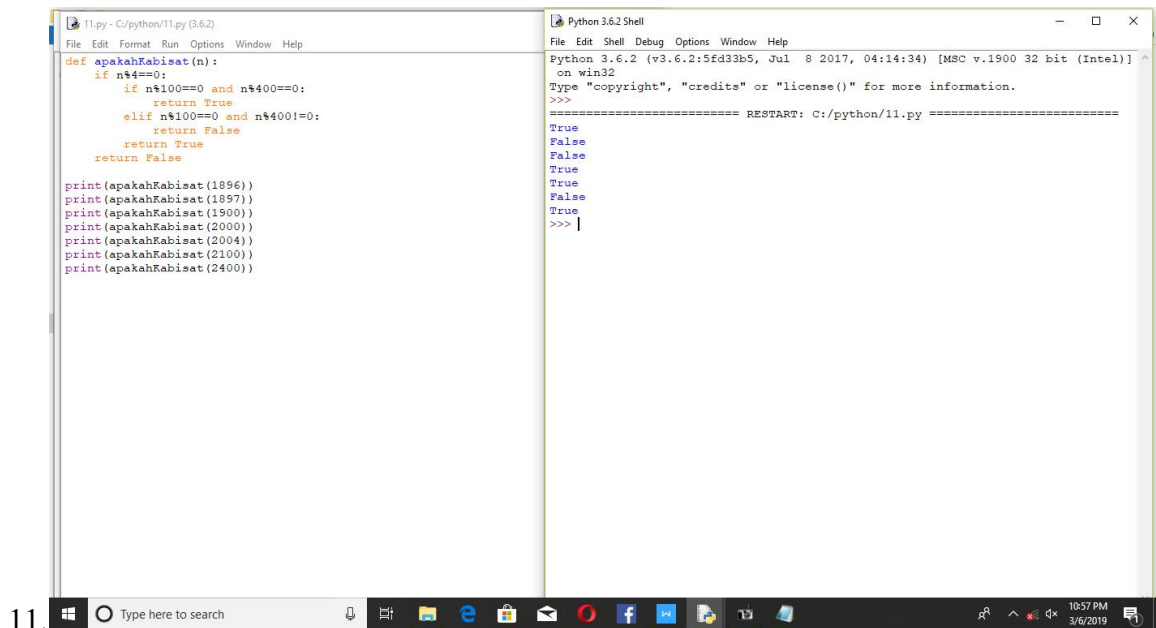
Activate Windows
Go to Settings to activate Windows.

10.

```
10.py - C:\python\10.py (3.6.2)
File Edit Format Run Options Window Help
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 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\10.py =====
>>> selesaikanABC(1,2,3)
Determinan negatif. Persamaan tidak mempunyai akar real.
>>>
```

Activate Windows
Go to Settings to activate Windows.



13.

The left window shows a Python script named `13.py` with the following code:

```
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')
```

The right window shows the execution of the script:

```
Python 3.6.2 Shell
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.

The left window shows a Python script named `14.py` with the following code:

```
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))
```

The right window shows the execution of the script:

```
Python 3.6.2 Shell
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'
>>> |
```