

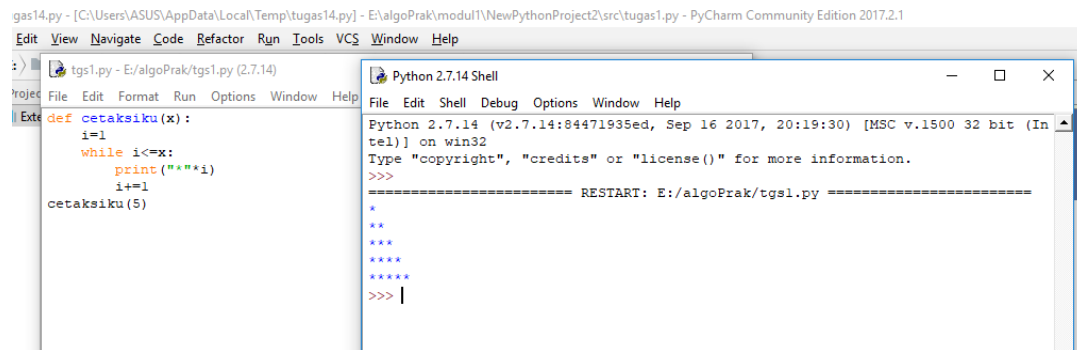
YOGA TRI PRIHATIN

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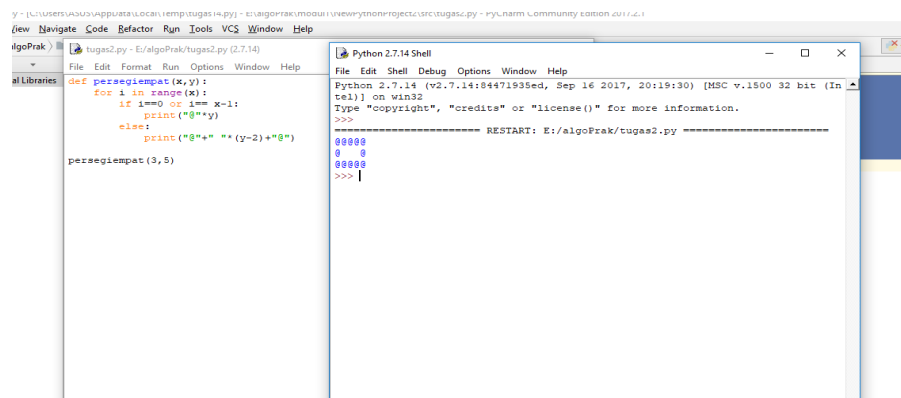
MODUL1

## TUGAS1.PY



```
gas14.py - [C:\Users\ASUS\AppData\Local\Temp\tugas14.py] - E:\algoPrak\modul1\NewPythonProject2\src\tugas1.py - PyCharm Community Edition 2017.2.1
Edit View Navigate Code Refactor Run Tools VCS Window Help
Python 2.7.14 Shell
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\algoPrak\tgs1.py =====
*
*
*
*
*
>>> |
```

## TUGAS2.PY



```
(view) Navigate Code Refactor Run Tools VCS Window Help
Python 2.7.14 Shell
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\algoPrak\tugas2.py =====
*****
0 0
*****
>>> |
```

## TUGAS3A.PY

The screenshot shows a Python IDE with two windows. The left window, titled 'tugas 3a.py - E:/algoPrak/tugas 3a.py (2.7.14)', contains the following code:

```
def vokal(b):  
    a="aiueoAIUEO"  
    x=0  
    for i in b:  
        if i in a:  
            x+=1  
    print(len(b),x)  
  
vokal("Surakarta")
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/algoPrak/tugas 3a.py =====  
(9, 4)  
>>> |
```

### TUGAS3B.PY

The screenshot shows a Python IDE with two windows. The left window, titled '3b.py - E:/algoPrak/3b.py (2.7.14)', contains the following code:

```
def vokal(b):  
    a="aiueoAIUEO"  
    x=0  
    for i in b:  
        if i not in a:  
            x+=1  
    print(len(b),x)  
  
vokal("Surakarta")
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/algoPrak/3b.py =====  
(9, 5)  
>>> |
```

### TUGAS4.PY

The screenshot shows a Python IDE with two windows. The left window, titled 'tugas4.py - E:/algoPrak/tugas4.py (2.7.14)', contains the following code:

```
def rerata(b):  
    x=sum(b)/len(b)  
    print(x)  
  
x=[2,3,6,5]  
rerata(x)
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/algoPrak/tugas4.py =====  
4  
>>> |
```

### TUGAS5.PY

The image shows a Python IDE with two windows. The left window, titled 'tugas5.py - E:/algoPrak/tugas5.py (2.7.14)', contains the following code:

```
from math import sqrt as sq
def prima(n):
    n = int(n)
    assert n >= 0
    primak = [2,3,5,7,11]
    bukanprima = [0,1,4,6,8,9,10]
    if n in primak:
        return True
    elif n in bukanprima:
        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")

prima(71)
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/tugas5.py =====
(71, 'adalah bilangan prima')
>>> |
```

## TUGAS6.PY

The image shows a Python IDE with two windows. The left window, titled 'tugas6.py - E:/algoPrak/tugas6.py (2.7.14)', contains the following code:

```
for i in range(2, 1000):
    d=2
    while i%d!=0:
        if d==(i-1):
            print(i, " ", d)
        d=d+1
    print("selesai")
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
(739, ' ', 738)
(743, ' ', 742)
(751, ' ', 750)
(757, ' ', 756)
(761, ' ', 760)
(769, ' ', 768)
(773, ' ', 772)
(787, ' ', 786)
(797, ' ', 796)
(809, ' ', 808)
(811, ' ', 810)
(821, ' ', 820)
(823, ' ', 822)
(827, ' ', 826)
(829, ' ', 828)
(839, ' ', 838)
(853, ' ', 852)
(857, ' ', 856)
(859, ' ', 858)
(863, ' ', 862)
(877, ' ', 876)
(881, ' ', 880)
(883, ' ', 882)
(887, ' ', 886)
(907, ' ', 906)
(911, ' ', 910)
(919, ' ', 918)
(929, ' ', 928)
(937, ' ', 936)
(941, ' ', 940)
(947, ' ', 946)
(953, ' ', 952)
(967, ' ', 966)
(971, ' ', 970)
(977, ' ', 976)
(983, ' ', 982)
(991, ' ', 990)
(997, ' ', 996)
selesai
>>> |
```

## TUGAS7.PY

```
\\Users\\ASUS\\AppData\\Local\\Temp\\tugas14.py] - E:/algoPrak/modul1\\NewPythonProject2\\1_D_150\\tugas7.py - PyCharm Community Edition 2017.2.1

tugas7.py - E:/algoPrak/tugas7.py (2) Python 2.7.14 Shell
File Edit Format Run Options W File Edit Shell Debug Options Window Help
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/tugas7.py =====
[2, 2, 2, 3, 5]
>>> |

def faktorprima(x):
    a=[]
    b=2
    while b<=x:
        if x%b==0:
            x/=b
            a.append(b)
        else:
            b+=1
    print(a)

faktorprima(120)
```

## TUGAS8.PY

```
modul1 / NewPythonProject2 / 1_D_150 / tugas8.py
tugas8.py - E:/algoPrak/tugas8.py Python 2.7.14 Shell
File Edit Format Run Options W File Edit Shell Debug Options Window Help
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/tugas8.py =====
True
>>> |

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

a="halo do"
b="katakan halo dora"

apakah(a,b)
```

## TUGAS9.PY

The screenshot shows an IDE with two windows. The left window, titled 'tugas9.py - E:/algoPrak/tugas9.py (2.7.14)', contains the following Python code:

```
for i in range(1,100):
    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)
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script. It displays a sequence of lines where 'python' and 'UMS' are printed in alternating patterns, corresponding to the logic in the script. The output ends with a prompt '>>> |'.

## TUGAS10.PY

The screenshot shows an IDE with two windows. The left window, titled 'tugas10.py - E:/algoPrak/tugas10.py (2.7.14)', contains the following Python code:

```
from math import sqrt as s
def selesaikan(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. Persa

selesaikan(1,2,3)
```

The right window, titled 'Python 2.7.14 Shell', shows the output of the script. It displays the following text:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/tugas10.py =====
Determinan negatif. Persamaan tidak mempunyai akar real
>>> |
```

## TUGAS11.PY

The screenshot shows a Python IDE with two windows. The left window, titled 'tugas11.py - E:/algoPrak/tugas11.py (2.7.14)', contains the following code:

```
def kabisat(x):  
    if (x % 4) == 0:  
        if (x % 100) == 0:  
            if (x % 400) == 0:  
                print ("Tahun Kabisat")  
            else:  
                print ("Bukan Tahun Kabisat")  
        else:  
            print ("Tahun Kabisat")  
    else:  
        print ("Bukan Tahun Kabisat")  
  
kabisat(2200)
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/algoPrak/tugas11.py =====  
Bukan Tahun Kabisat  
>>> |
```

## TUGAS12.PY

The screenshot shows a Python IDE with two windows. The left window, titled 'tugas12.py - E:/algoPrak/tugas12.py (2.7.14)', contains the following code:

```
from random import *  
  
x = randint(1, 100)  
print("saya menyimpan sebuah angka")  
while True :  
    a=int(input("masukan tebakan:"))  
    if a<x:  
        print("tebakan anda terlalu kecil")  
    elif a>x:  
        print("tebakan anda terlalu besar")  
    else :  
        print("tebakan anda benar")  
        break
```

The right window, titled 'Python 2.7.14 Shell', shows the execution output:

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:/algoPrak/tugas12.py =====  
saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak  
masukan tebakan: > |
```

## TUGAS13.PY

```
tugas13.py - E:/algoPrak/tugas13.py
def katakan(a):
    angka=("", "satu", "dua",
    hasil=""
    n=int(a)
    if n >=0 and n<=11:
        hasil=hasil+angka[n]
    elif n<20:
        hasil=angka[(n%10)]
    elif n<100:
        hasil=katakan(n/10)
    elif n<200:
        hasil="seratus "+ka
    elif n<1000:
        hasil=katakan(n/100
    elif n<2000:
        hasil="seribu "+kat
    elif n<1000000:
        hasil=katakan(n/100
    elif n<1000000000:
        hasil=katakan(n/100
    return hasil
print(katakan(3125750))

Python 2.7.14 Shell
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (In
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/tugas13.py =====
tiga juta seratus dua puluh lima ribu tujuh ratus lima puluh
>>>
>>> |
```

## TUGAS14.PY

```
tugas14.py - E:/algoPrak/tugas14.py (2.7.14)
def formatRupiah(x):
    a=str(x)
    b=""
    i = -1
    while i>= -len(a):
        if ((i+1)%3==0 and (i+1)!=0):
            b="."+b
        b=a[i]+b
        i-=1
    return "Rp "+b
print(formatRupiah(1500))

Python 2.7.14 Shell
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (In
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/tugas14.py =====
Rp 1.500
>>>
>>> |
```