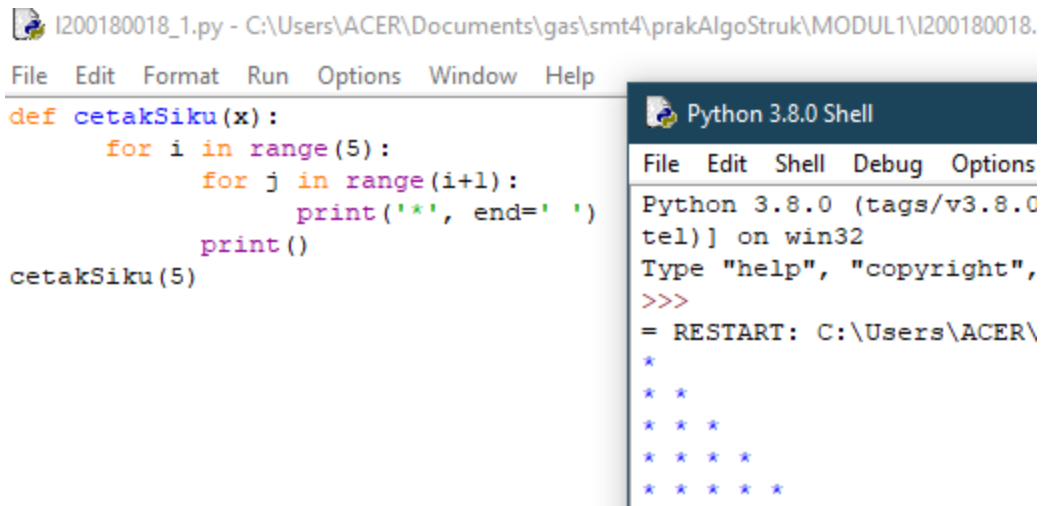


Nama : Resky Budi Nugroho

NIM : L200180018

Kelas : A

Modul 1

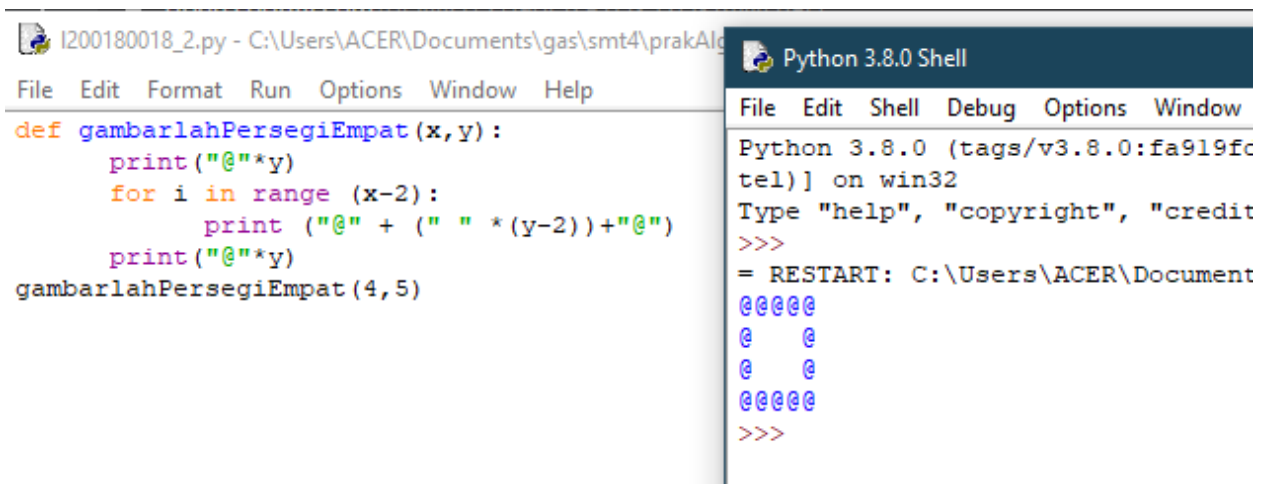


The screenshot shows a Python IDE window titled "I200180018_1.py - C:\Users\ACER\Documents\gas\smt4\prakAlgoStruk\MODUL1\I200180018.". The code defines a function `cetakSiku(x)` that prints a right-angled triangle of stars. The function uses nested loops: the outer loop iterates `i` from 0 to 4, and the inner loop iterates `j` from 0 to `i`. The stars are printed with a space before each one to create the triangular shape. The function is then called with `cetakSiku(5)`. To the right, a "Python 3.8.0 Shell" window shows the output: a right-angled triangle of 5 rows of stars.

```
def cetakSiku(x):  
    for i in range(5):  
        for j in range(i+1):  
            print('*', end=' ')  
        print()  
cetakSiku(5)
```

```
Python 3.8.0 (tags/v3.8.0  
tel)] on win32  
Type "help", "copyright",  
>>>  
= RESTART: C:\Users\ACER\  
*  
* *  
* * *  
* * * *  
* * * * *
```

1.



The screenshot shows a Python IDE window titled "I200180018_2.py - C:\Users\ACER\Documents\gas\smt4\prakAlgoStruk\MODUL1\I200180018_2.py". The code defines a function `gambarlahPersegiEmpat(x, y)` that prints a diamond shape using '@' symbols. The function prints a top half of a diamond (a right-angled triangle of '@' symbols) and then a bottom half (an inverted right-angled triangle). The function is then called with `gambarlahPersegiEmpat(4, 5)`. To the right, a "Python 3.8.0 Shell" window shows the output: a diamond shape made of '@' symbols.

```
def gambarlahPersegiEmpat(x, y):  
    print("@"*y)  
    for i in range(x-2):  
        print("@ " + (" " * (y-2)) + "@")  
    print("@"*y)  
gambarlahPersegiEmpat(4, 5)
```

```
Python 3.8.0 (tags/v3.8.0:fa919fc  
tel)] on win32  
Type "help", "copyright", "credit  
>>>  
= RESTART: C:\Users\ACER\Document  
@@@@@  
@  @  
@  @  
@@@@@  
>>>
```

2.

3. A.

```
= RESTART: C:\Users\ACER\Documents\gas\smt4\prakAlg  
y  
(9, 4)
```

I200180018_3a.py - C:\Users\ACER\Documents\gas\smt4\prakAlgoStruk\

File Edit Format Run Options Window Help

```
def jumlahHurufVokal(x):  
    vokal = "AIUEOaiueo"  
    jmlhuruf=len(x)  
    jmlvokal=0  
    for karakter in x:  
        if karakter in vokal:  
            jmlvokal+=1  
    return (jmlhuruf, jmlvokal)  
k=jumlahHurufVokal("Surakarta")  
print(k)
```

b.

```
= RESTART: C:\Users\ACER\Documents\gas\sr  
y  
(9, 5)  
>>>
```

I200180018_3b.py - C:\Users\ACER\Documents\gas\smt4\

File Edit Format Run Options Window Help

```
def jumlahHurufKonsonan(x):  
    vokal = "AIUEOaiueo"  
    jmlhuruf=len(x)  
    jmlkonsonan=1  
    for karakter in x:  
        if karakter in vokal:  
            jmlkonsonan+=1  
    return (jmlhuruf, jmlkonsonan)  
k=jumlahHurufKonsonan("Surakarta")  
print(k)
```

```

- RESTART: C:\Users\ACER\Docu
3.0
1200180018_4.py - C:\Users\ACER\Docu
File Edit Format Run Options Win
def rerata(p=[]):
    x=0
    n=0
    if p != []:
        for i in p:
            x+=i
            n+=1
        return x/n
z=rerata([1,2,3,4,5])
print(z)

```

4.

```

File Edit Format Run Options Window Help
>>> apakahPrima(17)
True
>>> apakahPrima(97)
True
>>> apakahPrima(123)
True
>>> apakahPrima(144)
False
>>>

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]

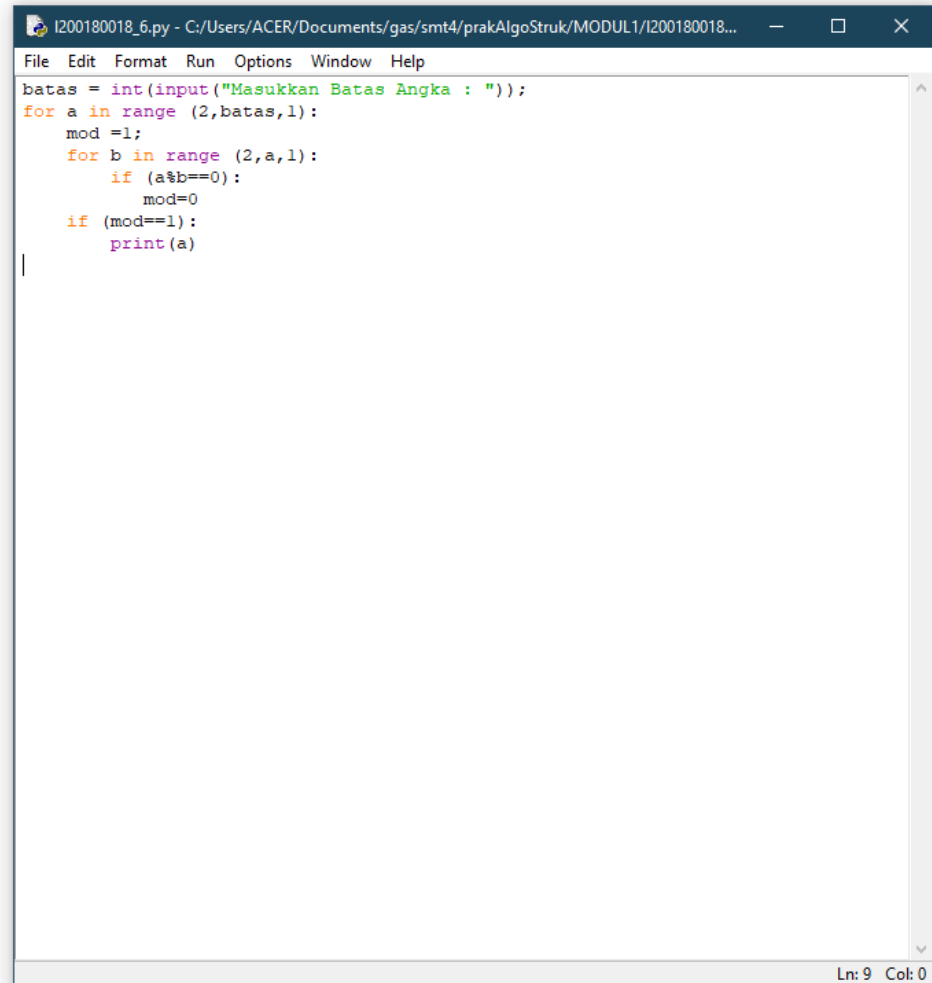
    if n in primaKecil:
        return True
    elif n in bukanPrKecil:
        return False
    else:
        for i in range(2, int(sq(n))+1):
            if n % i == 0:
                return False
        return True

```

5.

601
607
613
617
619
631
641
643
647
653
659
661
673
677
683
691
701
709
719
727
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
~~~

6.



```
l200180018_6.py - C:/Users/ACER/Documents/gas/smt4/prakAlgoStruk/MODUL1/l200180018...
File Edit Format Run Options Window Help
batas = int(input("Masukkan Batas Angka : "));
for a in range (2,batas,1):
    mod =1;
    for b in range (2,a,1):
        if (a%b==0):
            mod=0
    if (mod==1):
        print(a)
```

Ln: 9 Col: 0

```
Type "help", "copyright()", or "credits()" for more
>>>
= RESTART: C:\Users\ACER\Documents\gas\smt4\prakAlgoStruk\MOD
>>> faktorprima(10)
[2, 5]
>>> faktorprima(120)
[2, 2, 2, 3, 5]
>>> faktorprima(19)
[19]
>>>
```

```
I200180018_7.py - C:\Users\ACER\Documents\gas\smt4\prakAlgoStruk\MOD
File Edit Format Run Options Window Help

def faktorprima(x):
    factorlist=[]
    loop=2
    while loop<=x:
        if x%loop==0:
            x/=loop
            factorlist.append(loop)
        else:
            loop+=1
    return factorlist

print (faktorprima(x))
```

7.

```
...
= RESTART: C:/Users/ACER/Documents
>>> b = "do"
>>> k = "Indonesia tanah air beta"
>>> apakahterkandung(b,k)
True
>>> apakahterkandung("pusaka",k)
False
>>>
```

```
I200180018_8.py - C:/Users/ACER/Documents/ga
File Edit Format Run Options Window He

def apakahterkandung(a,b):
    if a in b:
        print(True)
    else:
        print(False)
```

8.

9. = RESTART: C:\Users\ACER\Documents\gas\smt4\prakAlgoStruk/1200180018\_9.py - C:\Users\ACER\Documents\gas\smt4\prakAlgoStruk/1200180018\_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

```

```

File Edit Format Run Options Window Help
for i in range (1,101):
    if i % 15 == 0:
        print ("Python UMS")
    elif i % 5 == 0:
        print ("UMS")
    elif i % 3 == 0:
        print ("Python")
    else:
        print (i)

```

10. = RESTART: C:/Users/ACER/Documents/gas/smt4/prakAlgoStruk/MODUL1/1200180018\_10.py - C:/Users/ACER/Documents/gas/smt4/prakAlgoStruk/MODUL1/1200180018\_10.py

```

>>> selesaikanABC(1,2,3)
Determinannya negatif. Persamaan Tidak memiliki akar real
>>> selesaikanABC(1,8,16)
Determinannya nol. Persamaan Hanya memiliki satu akar real
>>> selesaikanABC(1,4,-12)
Determinannya positif. Persamaan Dua akar real berbeda
>>>

```

```

File Edit Format Run Options Window Help
def selesaikanABC(a,b,c):
    D = b**2 - (4*a*c)
    if D>0:
        print ("Determinannya positif. Persamaan Dua akar real berbeda")
    elif D == 0:
        print ("Determinannya nol. Persamaan Hanya memiliki satu akar real")
    else:
        print ("Determinannya negatif. Persamaan Tidak memiliki akar real")

```

```

= RESTART: C:/Users/ACER/Python380/python.exe I200180018_11.py - C:/Users/ACER/Documents/gas/smt4/prakAlgoStruk/MODUL1/I2001
Y
>>> apakahKabisat(1900)
'Bukan kabisat'
>>> apakahKabisat(2000)
'kabisat'
>>>

```

```

def apakahKabisat(x):
    A = "kabisat"
    B = "Bukan kabisat"
    if x%4==0:
        if x%100==0 and x%400==0:
            return A
        elif x%100==0 and x%400!=0:
            return B
        return A
    return B

```

11.

```

Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 x64 (64-bit)] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
= RESTART: C:/Users/ACER/Documents/gas/smt4/prakAlgoStruk/MODUL1/I200180018_12.py
Y
Permainan Tebak Angka
Saya Menyimpan Sebuah Angka bulat Antara 1 sampai 100. Coba tebak
Masukan Tebakan1
Itu Terlalu Kecil. Coba Lagi
Masukan Tebakan24
Itu Terlalu Kecil. Coba Lagi
Masukan Tebakan50
Itu Terlalu Besar. Coba Lagi
Masukan Tebakan45
Itu Terlalu Besar. Coba Lagi
Masukan Tebakan34
Itu Terlalu Kecil. Coba Lagi
Masukan Tebakan45
Itu Terlalu Besar. Coba Lagi
Masukan Tebakan44
Ya. Anda Benar 44
None
>>>

```

```

import random;

def Number(n):
    n = random.randint(0, 100)

    print("Permainan Tebak Angka")
    print("Saya Menyimpan Sebuah Angka bulat Antara 1 sampai 100. Coba tebak")

    kira2 = -1

    while kira2 != n:
        kira2 = eval(input("Masukan Tebakan"))

        if kira2 == n:
            print("Ya. Anda Benar", n)
        elif kira2 > n:
            print("Itu Terlalu Besar. Coba Lagi")
        elif kira2 < n:
            print("Itu Terlalu Kecil. Coba Lagi")

    print(Number(1))

```

12.

```
= RESTART: C:/Users/ACER/Documents/gas/smt4/prakAlgoStruk/MODUL1/I200180018_13.p
y
>>> katakan(3125750)
'Tiga juta Seratus Dua puluh Lima ribu Tujuh ratus Lima puluh '
```

I200180018\_13.py - C:/Users/ACER/Documents/gas/smt4/prakAlgoStruk/MODUL1/I20018001...

File Edit Format Run Options Window Help

```
def katakan(a):
    x={"0":"","1":"Se", "2":"Dua ", "3":"Tiga ", "4":"Empat ", "5":"Lima ", "6":"Enam
    y={-1:"", -2:"puluh ", -3:"ratus ", -4:"ribu ", -5:"puluh ", -6:"ratus ", -7:"juta
    b=str(a)
    z=""
    i=-1
    while i>= -len(b):
        z=x[b[i]]+y[i]+z
        i-=1
    return z
```

13.

```
y
>>> formatRupiah(1500)
''Rp 1500''
>>> formatRupiah(2560000)
''Rp 2560000''
>>>
```

I200180018\_14.py - C:/Users/ACER/Documents/gas/smt4/prakAlgoStruk/MODUL1/I200

File Edit Format Run Options Window Help

```
def formatRupiah(x):
    y=str(x)
    z=""
    i = -1
    while i>= -len(y):
        if ((i+1)%3==0 and (i+1)!=0):
            c="."+z
        z=y[i]+z
        i-=1
    return ''+"Rp "+z+''
```

14.