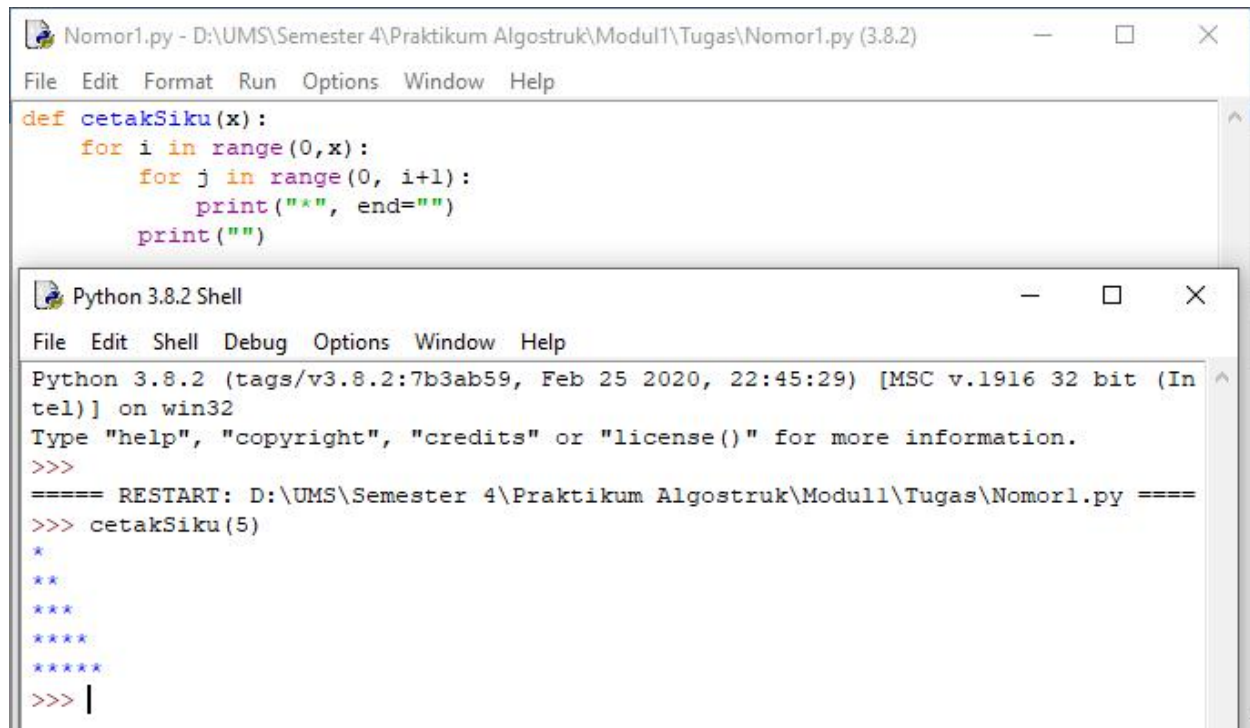


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MODUL 1



The screenshot displays two windows from a Python IDE. The top window, titled 'Nomor1.py - D:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor1.py (3.8.2)', contains a Python function definition:

```
def cetakSiku(x):  
    for i in range(0,x):  
        for j in range(0, i+1):  
            print("*", end="")  
        print("")
```

 The bottom window, titled 'Python 3.8.2 Shell', shows the execution of this script. It includes the standard Python startup message and a restart notice:

```
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:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor1.py =====  
>>> cetakSiku(5)  
*  
**  
***  
****  
*****  
>>> |
```

```
Nomor2.py - D:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor2.py (3.8.2)
File Edit Format Run Options Window Help

def gambarlahPersegiEmpat(x,y):
    for i in range(x):
        if i==0 or i== x-1:
            print ("@"*y)
        else:
            print ("@"+" "*(y-2)+"@")

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:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor2.py =====
>>> gambarlahPersegiEmpat(4,5)
@@@@@
@  @
@  @
@@@@@
>>> |
```

```
Nomor3.py - D:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor3.py (3.8.2)
File Edit Format Run Options Window Help

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

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

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:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor3.py =====
>>> vokal("Surakarta")
9 4
>>> konsonan("Surakarta")
9 5
>>> |
```

Nomor4.py - D:\UMS\Semester 4\	Python 3.8.2 Shell
<pre> File Edit Format Run Options def rerata(b): x = sum(b)/len(b) print(x) </pre>	<pre> File Edit Shell Debug Options Window Help Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) tel)] on win32 Type "help", "copyright", "credits" or "license()" for more >>> ===== RESTART: D:\UMS\Semester 4\Praktikum Algostruk\Modul >>> rerata([1,2,3,4,5]) 3.0 >>> g = [3,4,5,4,3,4,5,2,2,10,11,23] >>> rerata(g) 6.333333333333333 >>> </pre>

Nomor5.py - D:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas	Python 3.8.2 Shell
<pre> 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: print(n, " bukan bilangan prima") break else: print(n, " adalah bilangan prima") </pre>	<pre> File Edit Shell Debug Options Window Help Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) tel)] on win32 Type "help", "copyright", "credits" or "license()" for m >>> ===== RESTART: D:\UMS\Semester 4\Praktikum Algostruk\Mod >>> apakahPrima(17) 17 adalah bilangan prima >>> apakahPrima(97) 97 adalah bilangan prima >>> apakahPrima(123) 123 bukan bilangan prima >>> </pre>

Nomor6.py - D:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor6.py	Python 3.8.2 Shell
<pre> File Edit Format Run Options Window Help lower = 2 upper = 1000 print("Bilangan prima antara ",lower," dan ",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) </pre>	<pre> File Edit Shell Debug Options Window Help Bilangan prima antara 2 dan 1000 : 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 </pre>

<p>Nomor7.py - D:\UMS\Semester 4\Praktikum Algoritma</p> <pre> def faktorPrima(x): a = [] b = 2 while b <= x: if x%b == 0: x /= b a.append(b) else: b+=1 print(a) </pre>	<p>Python 3.8.2 Shell</p> <pre> Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:41:41) on win32 Type "help", "copyright", "credits" or "license()" for more >>> ===== RESTART: D:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\Nomor7.py ===== >>> faktorPrima(10) [2, 5] >>> faktorPrima(120) [2, 2, 2, 3, 5] >>> faktorPrima(19) [19] >>> </pre>
---	---

<p>Nomor8.py - D:\UMS\Semester 4\Praktikum Algoritma</p> <pre> def apakahTerkandung(a,b): if a in b: print("True") else: print("False") </pre>	<p>Python 3.8.2 Shell</p> <pre> Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) on win32 Type "help", "copyright", "credits" or "license()" for more >>> ===== RESTART: D:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\Nomor8.py ===== >>> h = "do" >>> k = "Indonesia tanah air beta" >>> apakahTerkandung(h,k) True >>> apakahTerkandung('pusaka',k) False >>> </pre>
--	---

<p>Nomor9.py - D:\UMS\Semester 4\Praktikum Algoritma</p> <pre> 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) </pre>	<p>Python 3.8.2 Shell</p> <pre> 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:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\Nomor9.py ===== 1 2 Python 4 UMS Python 7 8 Python UMS 11 Python 13 14 Python UMS 16 17 Python 19 UMS Python </pre>
--	--


```
Nomor10.py - D:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor10.py (3.8.2)
File Edit Format Run Options Window Help

from math import sqrt as s
def selesaikanABC(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. Persamaan tidak mempunyai akar real")

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:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor10.py ====
>>> selesaikanABC(1,2,3)
Determinan negatif. Persamaan tidak mempunyai akar real
>>> |
```

<pre>Nomor11.py - D:\UMS\Semester 4\Praktikum Algostruk\Modul1\ File Edit Format Run Options Window Help def apakahKabisat(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")</pre>	<pre>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:\UMS\Semester 4\Praktikum Algostruk\Modul1\Tugas\Nomor11.py ==== >>> apakahKabisat(2018) Bukan Tahun Kabisat >>> apakahKabisat(2020) Tahun Kabisat >>> </pre>
--	---

<div>Nomor12.py - D:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\Nomor12.py (3.8.2)</div> <div>File Edit Format Run Options Window Help</div> <pre>from random import * x = randint(1, 100) print("Permainan tebak angka.") print("Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak") while True : a = int(input("Masukan tebakan:>")) if a < x: print("tebakan anda terlalu kecil. Coba lagi") elif a > x: print("tebakan anda terlalu besar. Coba lagi") else : print("tebakan anda benar") break</pre>	<div>Python 3.8.2 Shell</div> <div>File Edit Shell Debug Options Window Help</div> <pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.19 tel)] on win32 Type "help", "copyright", "credits" or "license()" for more informa >>> ==== RESTART: D:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\No Permainan tebak angka. Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak Masukan tebakan:>45 tebakan anda terlalu kecil. Coba lagi Masukan tebakan:>56 tebakan anda terlalu kecil. Coba lagi Masukan tebakan:>78 tebakan anda terlalu besar. Coba lagi Masukan tebakan:>67 tebakan anda terlalu besar. Coba lagi Masukan tebakan:>58 tebakan anda terlalu kecil. Coba lagi Masukan tebakan:>63 tebakan anda terlalu besar. Coba lagi Masukan tebakan:>62 tebakan anda terlalu besar. Coba lagi Masukan tebakan:>61 tebakan anda terlalu besar. Coba lagi Masukan tebakan:>60 tebakan anda terlalu besar. Coba lagi Masukan tebakan:>59 tebakan anda benar >>> </pre>
---	--

<div>Nomor13.py - D:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\Nomor13.py (3.8.2)</div> <div>File Edit Format Run Options Window Help</div> <pre>def katakan(a): angka = ("","Satu","Dua","Tiga","Empat","Lima","Enam","Tujuh","Delapan","Sembilan","Sepuluh","Sebelas") hasil = "" n = int(a) if n >= 0 and n <= 11 : hasil = angka[n] elif n < 20 : hasil = angka[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) return hasil</pre>	<div>Python 3.8.2 Shell</div> <div>File Edit Shell Debug Options Window Help</div> <pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v. tel)] on win32 Type "help", "copyright", "credits" or "license()" for more infor >>> ==== RESTART: D:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\ >>> katakan(3125750) 'Tiga Juta Seratus Dua Puluh Lima Ribu Tujuh Ratus Lima Puluh ' >>> </pre>
---	--

<div>Nomor14.py - D:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\Nomor14.py (3.8.2)</div> <div>File Edit Format Run Options Window Help</div> <pre>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</pre>	<div>Python 3.8.2 Shell</div> <div>File Edit Shell Debug Options Window Help</div> <pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.19 tel)] on win32 Type "help", "copyright", "credits" or "li >>> ==== RESTART: D:\UMS\Semester 4\Praktikum Algoritma\Modul1\Tugas\ >>> formatRupiah(2560000) 'Rp 2.560.000' >>> </pre>
--	---