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Kelas : H Praktikum

MODUL 1 SOAL-SOAL MAHASISWA

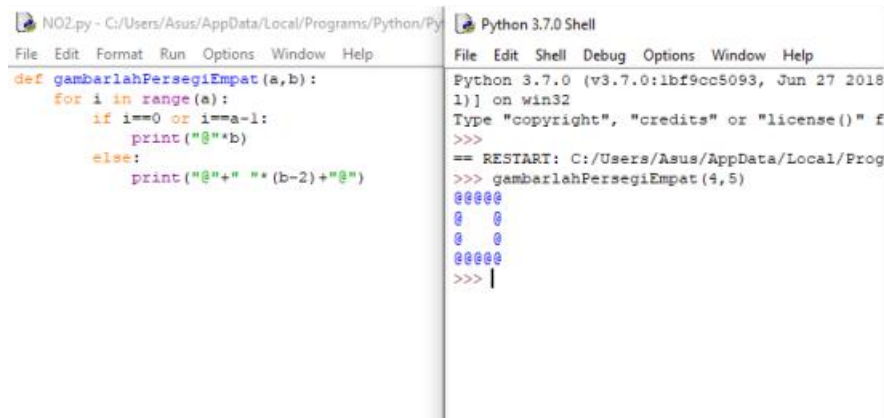
Nomor 1



```
NO1.py - C:/Users/Asus/AppData/Local/Programs/Python/Pyt Python 3.7.0 Shell
File Edit Format Run Options Window Help File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018) on win32
Type "copyright", "credits" or "license()" for more
>>>
== RESTART: C:/Users/Asus/AppData/Local/Programs/Python/Python37-Shell
>>> cetakSiku(5)

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

Nomor 2



```
NO2.py - C:/Users/Asus/AppData/Local/Programs/Python/Pyt Python 3.7.0 Shell
File Edit Format Run Options Window Help File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018) on win32
Type "copyright", "credits" or "license()" for more
>>>
== RESTART: C:/Users/Asus/AppData/Local/Programs/Python/Python37-Shell
>>> gambarlahPersegiEmpat(4,5)
****
*  *
*  *
*  *
****
>>> |
```

Nomor 3A

NO3.py - C:/Users/Asus/AppData/Local/Programs/Python/Py	Python 3.7.0 Shell
File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>def jumlahHurufVokal(hruf): vokal = "AIUEOaiueo" a=0 hasil=0 for i in hruf: if i in vokal: a += len(i) else: a += 0 hasil = len(hruf),a return hasil</pre>	<pre>Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018 1)] on win32 Type "copyright", "credits" or "license()" f >>> == RESTART: C:/Users/Asus/AppData/Local/Prog >>> k = jumlahHurufVokal("Surakarta") >>> k (9, 4) >>> </pre>

Nomor 3B

NO3B.py - C:/Users/Asus/AppData/Local/Programs/Python/Py	Python 3.7.0 Shell
File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>def jumlahHurufKonsonan(hruf): konsonan = "BCDFGHIJKLMNOPQRSTUVWXYZbcdfghj b = 0 hasil = 0 for i in hruf: if i in konsonan: b += len(i) else: b += 0 hasil = len(hruf),b return hasil</pre>	<pre>Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 201 1)] on win32 Type "copyright", "credits" or "license()" >>> == RESTART: C:/Users/Asus/AppData/Local/Pro >>> k = jumlahHurufKonsonan("Surakarta") >>> k (9, 5) >>> </pre>

Nomor 4

NO4.py - C:/Users/Asus/AppData/Local/Programs/Python/Py	Python 3.7.0 Shell
File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>def rerata(x): jumlah = 0 for i in range(len(x)): jumlah += x[i] jumlah = jumlah/len(x) return jumlah</pre>	<pre>Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018 1)] on win32 Type "copyright", "credits" or "license()" f >>> == RESTART: C:/Users/Asus/AppData/Local/Prog >>> 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>

Nomor 5

NO5.py - C:/Users/Asus/AppData/Local/Programs/Python/Py	Python 3.7.0 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: return False return True</pre>	<pre>File Edit Shell Debug Options Window Help Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018 1)] on win32 Type "copyright", "credits" or "license()" f >>> == RESTART: C:/Users/Asus/AppData/Local/Prog >>> apakahPrima(17) True >>> apakahPrima(97) True >>> apakahPrima(123) False >>> </pre>

Nomor 6

NO6.py - C:/Users/Asus/AppData/Local/Programs/Python/Py	Python 3.7.0 Shell
<pre>File Edit Format Run Options Window Help lower = 2 upper = 1000 if lower>=1 and upper>1: for x in range(lower,upper): prima=True for i in range(2,x): if (x%i==0): prima=False if prima==True: print(x) else: print("Bukan Bilangan Prima")</pre>	<pre>File Edit Shell Debug Options Window Help Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018 1)] on win32 Type "copyright", "credits" or "license()" f >>> == RESTART: C:/Users/Asus/AppData/Local/Prog 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107 109 113 127 131 137 139</pre>

Nomor 7

NO7.py - C:/Users/Asus/AppData/Local/Programs/Python/Pyt	Python 3.7.0 Shell
<pre>def faktorPrima(a): bilanganList = [] loop = 2 while loop <= a: if a%loop == 0: a/=loop bilanganList.append(loop) else: loop+=1 return bilanganList</pre>	<pre>Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018) on win32 Type "copyright", "credits" or "license()" for more >>> == RESTART: C:/Users/Asus/AppData/Local/Programs/Python/Python370/Python370 Shell >>> faktorPrima(10) [2, 5] >>> faktorPrima(120) [2, 2, 2, 3, 5] >>> faktorPrima(19) [19] >>></pre>

Nomor 8

NO8.py - C:/Users/Asus/AppData/Local/Programs/Python/Pyt	Python 3.7.0 Shell
<pre>def apakahTerkandung(x,y): a = True for i in range(len(y)): if x in y: a = True else: a = False return a</pre>	<pre>Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018) on win32 Type "copyright", "credits" or "license()" for more >>> == RESTART: C:/Users/Asus/AppData/Local/Programs/Python/Python370/Python370 Shell >>> h = 'do' >>> k = 'Indonesia tanah air beta' >>> apakahTerkandung(h,k) True >>> apakahTerkandung('pusaka',k) False >>> </pre>

Nomor 9

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

def mencetak(a):
    for i in range(a):
        if i <= 0:
            pass
        elif i%3==0 and i%5==0:
            print("Phyton UMS")
        elif i%3==0:
            print("Phyton")
        elif i%5==0:
            print("UMS")
        else:
            print(i)

62
Phyton
64
UMS
Phyton
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Phyton
UMS
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Phyton
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Phyton UMS
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Phyton
79
UMS
Phyton
82
83
Phyton
UMS
86
Phyton
88
89
Phyton UMS
91
92
Phyton
94
UMS
Phyton
97
98
Phyton
UMS
```

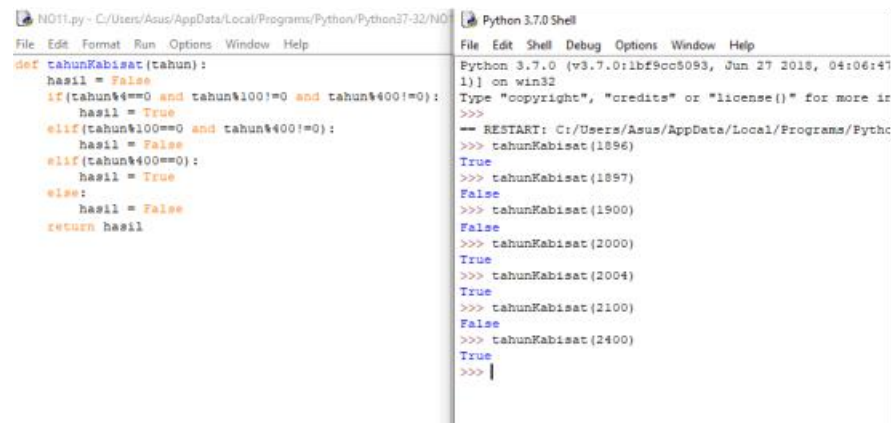
Nomor 10

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (tags/v3.7.0:1bf500509, Jun 27 2019, 09:06:47) [MSC v.1914
1]) on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/
>>> selesaikanABC(1,2,3)
'Determinan negatif, persamaan tidak mempunyai akar real'
>>>

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

Nomer 11



```

N011.py - C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/N011.py
File Edit Format Run Options Window Help

def tahunKabisat(tahun):
    hasil = False
    if(tahun%4==0 and tahun%100!=0 and tahun%400!=0):
        hasil = True
    elif(tahun%100==0 and tahun%400!=0):
        hasil = False
    elif(tahun%400==0):
        hasil = True
    else:
        hasil = False
    return hasil

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) on win32
Type "copyright", "credits" or "license()" for more in
>>>
-- RESTART: C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/Python.exe
>>> tahunKabisat(1896)
True
>>> tahunKabisat(1897)
False
>>> tahunKabisat(1900)
False
>>> tahunKabisat(2000)
True
>>> tahunKabisat(2004)
True
>>> tahunKabisat(2100)
False
>>> tahunKabisat(2400)
True
>>>
  
```

Nomer 12



```

nomer12.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGORITMA\SEMESTER 4_Modul1_H_ASD\
File Edit Format Run Options Window Help

import random
def tebakAngka():
    a = random.randrange(1,101,1)
    b = -1
    n = 0
    print ("Permainan Tebak Angka")
    print ("Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.")
    while a != b :
        n = n + 1
        b = int (input ("Masukkan Tebakan ke- " + str(n) + " :> "))
        if b < a :
            print ("Itu Terlalu Kecil")
        elif b > a :
            print ("Itu Terlalu Besar")
        else :
            print ("Ya. Anda Benar.")
            break

Python 2.7.15 Shell
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079e3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
-- RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGORITMA\SEMESTER 4_Modul1_H_ASD\
>>> tebakAngka()
Permainan Tebak Angka
Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.
Masukkan Tebakan ke- 1:> 78
Itu Terlalu Kecil
Masukkan Tebakan ke- 2:> 100
Itu Terlalu Besar
Masukkan Tebakan ke- 3:> 90
Itu Terlalu Besar
Masukkan Tebakan ke- 4:> 85
Ya. Anda Benar.
>>>
  
```

Nomor 13

NO13.py - C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/NO13.py (3.7.0)
File Edit Format Run Options Window Help

```

def katakan(bilangan):
    angka = ["", "Satu", "Dua", "Tiga", "Empat", "Lima",
             "Enam", "Tujuh", "Delapan", "Sembilan", "Sepuluh", "Sebelas"]
    Hasil = " "
    n = int(bilangan)
    if n>0 and n<11:
        Hasil = Hasil+angka[n]
    elif n<2:
        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<10000:
        Hasil = katakan(n/1000) + "Ribu" + katakan(n%1000)
    elif n<20000:
        Hasil = "Sepuluh Ribu" + katakan(n-10000)
    elif n<100000:
        Hasil = katakan(n/10000) + "Puluh" + katakan(n%10000)
    elif n<200000:
        Hasil = "Seratus Ribu" + katakan(n-100000)
    elif n<1000000:
        Hasil = katakan(n/100000) + "Ratus" + katakan(n%100000)
    elif n<2000000:
        Hasil = "Satu Juta" + katakan(n-1000000)
    elif n<10000000:
        Hasil = katakan(n/1000000) + "Juta" + katakan(n%1000000)
    elif n==10000000:
        Hasil = "Satu Milyar" + katakan(n%10000000)
    else:
        Hasil = "Angka Banyak Sampai Satu Milyar"
    return Hasil

```

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32
1) on win32
Type "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/NO1
>>> katakan(3123750)
' TigaJutaSeratus Ribu DuaPuluh LimaRibu TujuhRatus LimaPuluh '
>>>

Nomor 14

NO14.py - C:/Users/Asus/AppData/Local/Programs/Python/Pytl
File Edit Format Run Options Window Help

```

def formatRupiah(bilangan):
    a = str(bilangan)
    if len(a)<=3:
        return "Rp "+a
    else:
        y = a[-3:]
        z = a[:-3]
        return formatRupiah(z)+","+"y
    print(("Rp "+formatRupiah(z)+","+"y)

```

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 201
1) on win32
Type "copyright", "credits" or "license()"
>>>
== RESTART: C:/Users/Asus/AppData/Local/Pro
>>> formatRupiah(1500)
'Rp 1.500'
>>> formatRupiah(2560000)
'Rp 2.560.000'
>>>