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Kelas : H

MODUL 1 SOAL-SOAL MAHASISWA

Nomor 1

NO1.py - C:/Users/Asus/AppData/Local/Programs/Python/Pyt

File Edit Format Run Options Window Help

```
def cetakSiku(x):  
    for i in range(x+1):  
        print (i * "**")
```

Python 3.7.0 Shell

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()" :  
>>>  
== RESTART: C:/Users/Asus/AppData/Local/Pro  
>>> cetakSiku(5)  
  
*  
**  
***  
****  
*****  
>>> |
```

Nomor 2

NO2.py - C:/Users/Asus/AppData/Local/Programs/Python/Py

File Edit Format Run Options Window Help

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

Python 3.7.0 Shell

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  
>>> gambarlahPersegiEmpat(4,5)  
@@@@@  
@  @  
@  @  
@@@@@  
>>> |
```

Nomor 3A

NO3.py - C:/Users/Asus/AppData/Local/Programs/Python/Py...

File Edit Format Run Options Window Help

```
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
```

Python 3.7.0 Shell

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
>>> k = jumlahHurufVokal("Surakarta")
>>> k
(9, 4)
>>> |

Nomor 3B

NO3B.py - C:/Users/Asus/AppData/Local/Programs/Python/Py...

File Edit Format Run Options Window Help

```
def jumlahHurufKonsonan(hruf):  
    konsonan = "BCDFGHJKLMNPQRSTVWXYZbcd fghjkl"  
    b = 0  
    hasil = 0  
    for i in hruf:  
        if i in konsonan:  
            b += len(i)  
        else:  
            b += 0  
    hasil = len(hruf),b  
    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
1)] on win32
Type "copyright", "credits" or "license()" :
>>>
== RESTART: C:/Users/Asus/AppData/Local/Pro
>>> k = jumlahHurufKonsonan("Surakarta")
>>> k
(9, 5)
>>> |

Nomor 4

NO4.py - C:/Users/Asus/AppData/Local/Programs/Python/Py	Python 3.7.0 Shell
<pre>File Edit Format Run Options Window Help def rerata(x): jumlah = 0 for i in range(len(x)): jumlah += x[i] jumlah = jumlah/len(x) return jumlah</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 >>> 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>File Edit Format Run Options Window Help 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>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 >>> 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/Py

Python 3.7.0 Shell

File Edit Format Run Options Window Help

File Edit Shell Debug Options Window Help

```
def apakahTerkandung(x,y):  
    a = True  
    for i in range(len(y)):  
        if x in y:  
            a = True  
        else:  
            a = False  
    return a
```

```
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:  
>>> h = 'do'  
>>> k = 'Indonesia tanah air beta'  
>>> apakahTerkandung(h,k)  
True  
>>> apakahTerkandung('pusaka',k)  
False  
>>> |
```

Nomor 9

NO9.py - C:/Users/Asus/AppData/Local/Programs/Python/Py

Python 3.7.0 Shell

File Edit Format Run 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)

File Edit Shell Debug Options Window Help

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Phyton
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UMS
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Phyton UMS
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Nomor 10

NO10.py - C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/NO10.py (3.7.0)

Python 3.7.0 Shell

File Edit Format Run Options Window Help

from math import sqrt as detrr
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+detrr(D))/(2*a)
 x2 = (-b-detrr(D))/(2*a)
 return hasil

File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [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'
>>> |

Nomor 11

```
NO11.py - C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/NO11
Python 3.7.0 Shell

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 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47
1)] on win32
Type "copyright", "credits" or "license()" for more in
>>>
== RESTART: C:/Users/Asus/AppData/Local/Programs/Pytho
>>> tahunKabisat(1896)
True
>>> tahunKabisat(1897)
False
>>> tahunKabisat(1900)
False
>>> tahunKabisat(2000)
True
>>> tahunKabisat(2004)
True
>>> tahunKabisat(2100)
False
>>> tahunKabisat(2400)
True
>>> |
```

Nomor 12

```
nomer12.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211_Modul1_...
Python 2.7.15 Shell

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 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (In
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211_Modul1_H_ASD\
nomer12.py
>>> 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) + "Ribuh" + katakan(n%1000)
    elif n<20000:
        Hasil = "Sepuluh Ribuh" + katakan(n-10000)
    elif n<100000:
        Hasil = katakan(n/10000) + "Puluh" + katakan(n%10000)
    elif n<200000:
        Hasil = "Seratus Ribuh" + 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==100000000:
        Hasil = "Satu Milyar" + katakan(n%100000000)
    else:
        Hasil = "Angka Hanya 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(3125750)
' TigaJutaSeratus Ribuh DuaPuluh LimaRibuh TujuhRatus LimaPuluh '
>>> |

Nomor 14

NO14.py - C:/Users/Asus/AppData/Local/Programs/Python/Pyth

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'
>>>