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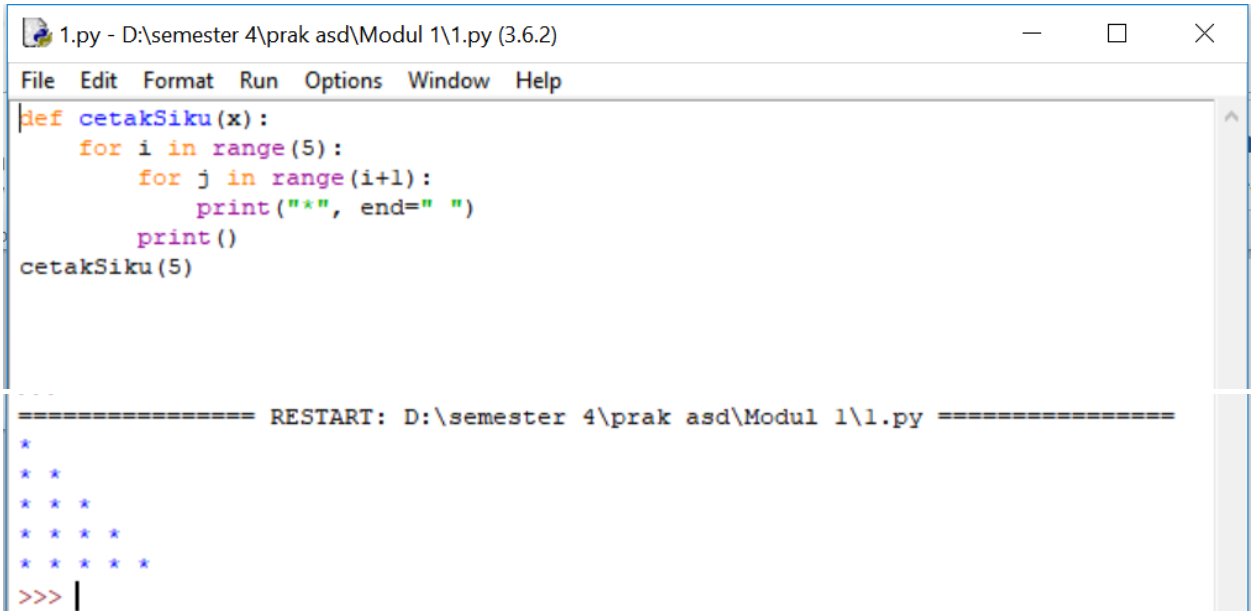
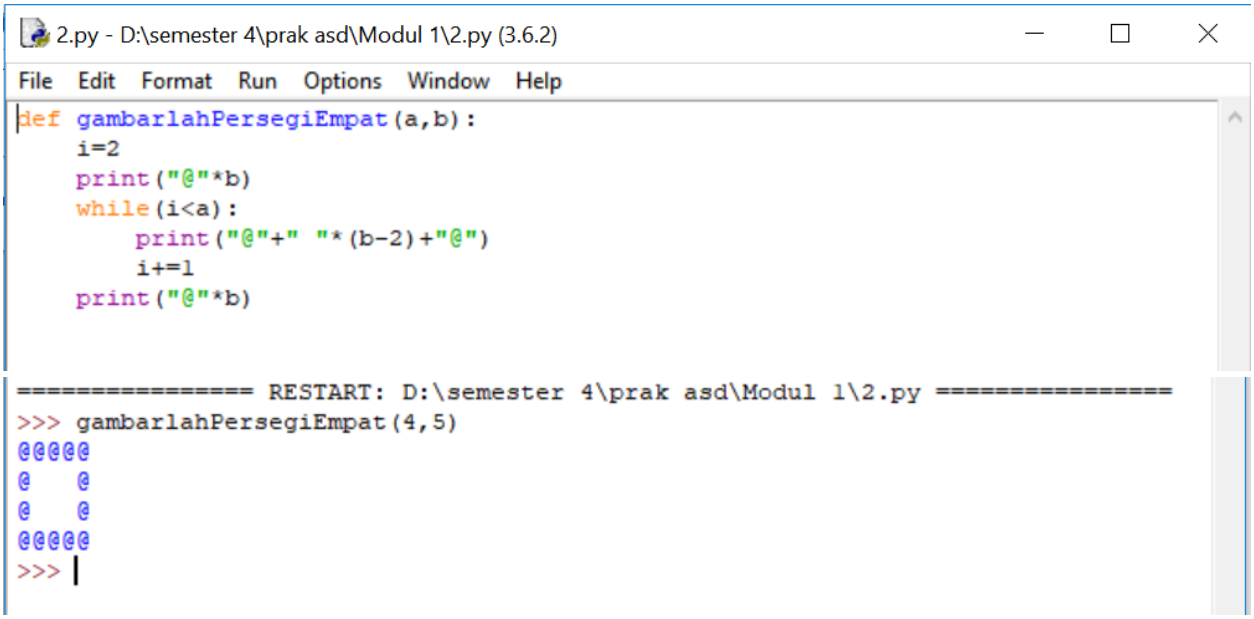
MODUL 1

1.



2.



3. a.

3(a).py - D:\semester 4\prak asd\Modul 1\3(a).py (3.6.2)

File Edit Format Run Options Window Help

```
def jumlahhurufvokal(a):
    v="aiueoAIUEO"
    vokal=0
    jumlahhuruf=0
    for i in a:
        jumlahhuruf+=1
        if i in v:
            vokal+=1
    return (jumlahhuruf,vokal)


============== RESTART: D:\semester 4\prak asd\Modul 1\3(a).py ==============
>>> k = jumlahhurufvokal('Surakarta')
>>> k
(9, 4)
>>>
```

b.

3(b).py - D:\semester 4\prak asd\Modul 1\3(b).py (3.6.2)

File Edit Format Run Options Window Help

```
def jumlahhurufkonsonan(a):
    v="BCDFGHJKLMNPQRSTVWXYZbcdfghjklmnpqrstvwxyz"
    konsonan=0
    jumlahhuruf=0
    for i in a:
        jumlahhuruf+=1
        if i in v:
            konsonan+=1
    return (jumlahhuruf,konsonan)


============== RESTART: D:\semester 4\prak asd\Modul 1\3(b).py ==============
>>> k = jumlahhurufkonsonan('Surakarta')
>>> k
(9, 5)
>>>
```

4.

5.

4.py - D:\semester 4\prak asd\Modul 1\4.py (3.6.2)

File Edit Format Run Options Window Help

```
def rerata(b=[]):
    x=0
    n=0
    if b != []:
        for i in b:
            x+=i
            n+=1
        return x/n
```

```
================ RESTART: D:\semester 4\prak asd\Modul 1\4.py ================
>>> rerata([1,2,3,4,5])
3.0
>>> g = [3,4,5,4,3,4,5,2,2,10,11,13]
>>> rerata(g)
5.5
>>>
```

6.

5.py - D:\semester 4\prak asd\Modul 1\5.py (3.6.2)

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]
    bukanprima=[0, 1, 4, 6, 8, 9, 10]
    if n in primakecil:
        return True
    elif n in bukanprima:
        return False
    else:
        for i in range(2,int(sq(n))+1):
            if(n%i==0):
                return False
    return True
```

```
================ RESTART: D:\semester 4\prak asd\Modul 1\5.py ================
>>> apakahPrima(17)
True
>>> apakahPrima(97)
True
>>> apakahPrima(123)
False
>>>
```


6.py - D:\semester 4\prak asd\Modul 1\6.py (3.6.2)
File Edit Format Run Options Window Help
def cetakbilanganprima():
prima=list()
for i in range(2,100):
a = True
for iter in prima:
if(i%iter==0):
a=False
break
if(a):
print(i)
prima.append(i)
cetakbilanganprima()
========== RESTART: D:\semester 4\prak asd\Modul 1\6.py ==========
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
>>>

7.

7.py - D:\semester 4\prak asd\Modul 1\7.py (3.6.2)

File Edit Format Run Options Window Help

```
def faktorprima(n):
    prima=list()
    for i in range(2,n):
        a = True
        for iter in prima:
            if(i%iter==0):
                a=False
                break
        if a and n%i==0:
            prima.append(i)
    return prima
```

```
================ RESTART: D:\semester 4\prak asd\Modul 1\7.py ================
>>> faktorprima(10)
[2, 5]
>>> faktorprima(120)
[2, 3, 5]
>>> faktorprima(19)
[]
>>>
```

8.

8.py - D:\semester 4\prak asd\Modul 1\8.py (3.6.2)

File Edit Format Run Options Window Help

```
def apakahTerkandung(a,b):
    return a in b
```

```
================ RESTART: D:\semester 4\prak asd\Modul 1\8.py ================
>>> h = 'do'
>>> k = 'Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>>
```

9.

9.py - D:\semester 4\prak asd\Modul 1\9.py (3.6.2)

File Edit Format Run Options Window Help

```
def cetak():
    for i in range(1,100):
        if (i%3)!=0 and (i%5)!=0:
            print(i)
        else:
            if (i%15)==0:
                print("pyton UMS")
            elif (i%3)==0:
                print("python")
            elif (i%5)==0:
                print("UMS")
cetak()
```

```
================ RESTART: D:\semester 4\prak asd\Modul 1\9.py ================
1
2
python
4
UMS
python
7
8
python
UMS
11
python
13
14
pyton UMS
16
17
python
19
UMS
python
22
23
python
UMS
26
python
28
29
pyton UMS
31
32
python
34
UMS
python
37
38
```

10.

10.py - D:\semester 4\prak asd\Modul 1\10.py (3.6.2)

File Edit Format Run Options Window Help

```
def selesaikanABC(a,b,c):
    a=float(a)
    b=float(b)
    c=float(c)
    D=(b**2)-(4*a*c)
    if D<0:
        return "determinan negatif"
    return  "determinan positif"
```

```
=============== RESTART: D:\semester 4\prak asd\Modul 1\10.py ===============
>>> selesaikanABC(1,2,3)
'determinan negatif'
>>>
```

11.

11.py - D:\semester 4\prak asd\Modul 1\11.py (3.6.2)

File Edit Format Run Options Window Help

```
tahun=int(input("Masukkan Tahun untuk mengetahui kabisat atau tidak:"))
if(tahun%4==0 and tahun%100!=0 or tahun%400==0):
    print ("True")
else:
    print ("False")
```

```
=============== RESTART: D:\semester 4\prak asd\Modul 1\11.py ===============
Masukkan Tahun untuk mengetahui kabisat atau tidak:2004
True
```

12.

12.py - D:\semester 4\prak asd\Modul 1\12.py (3.6.2)

File Edit Format Run Options Window Help

```
import random
def game():
    a=random.randrange(0, 100)
    print ("permainan tebak angka")
    print ("Saya menyimpan sebuah angka bulat antara 1 sampai 100. coba tebak.")
    while(True):
        b=int(input("masukan angka: "))
        if(b>a):
            print("terlalu besar, coba lagi")
        elif(b<a):
            print("terlalu kecil, coba lagi")
        else:
            print("benar")
            break
game()
```

```
=============== RESTART: D:\semester 4\prak asd\Modul 1\12.py ===============
permainan tebak angka
Saya menyimpan sebuah angka bulat antara 1 sampai 100. coba tebak.
masukan angka: 50
terlalu kecil, coba lagi
masukan angka: 60
terlalu besar, coba lagi
masukan angka: 55
terlalu kecil, coba lagi
masukan angka: 57
terlalu kecil, coba lagi
masukan angka: 58
terlalu kecil, coba lagi
masukan angka: 59
benar
```

13.

13.py - D:\semester 4\prak asd\Modul 1\13.py (3.6.2)

File Edit Format Run Options Window Help

```
def katakan(a):
    x={"0":"","1":"Se","2":"Dua ","3":"Tiga ","4":"Empat ",
       "5":"Lima ","6":"Enam ","7":"Tujuh ","8":"Delapan ","9":"Sembilan "}
    y={-1:"",-2:"puluh ",-3:"ratus ",-4:"ribu ",-5:"puluh ",
       -6:"ratus ",-7:"juta ",-8:"puluhjuta "}
    b=str(a)
    c=""
    i=-1
    while i>= -len(b):
        c=x[b[i]]+y[i]+c
        i-=1
    return c
```

```
=============== RESTART: D:\semester 4\prak asd\Modul 1\13.py ===============
>>> katakan(3125750)
'Tiga juta Seratus Dua puluh Lima ribu Tujuh ratus Lima puluh '
>>>
```

14.

14.py - D:\semester 4\prak asd\Modul 1\14.py (3.6.2)

File Edit Format Run Options Window Help

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

```
================ RESTART: D:\semester 4\prak asd\Modul 1\14.py ================
>>> formatRupiah(1500)
'Rp 1.500'
>>> formatRupiah(2560000)
'Rp 2.560.000'
>>>
```