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KELAS : E
MODUL : 1

1.

no1.py - D:\Modul1\no1.py (3.6.2)

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

Hasilnya :

```
>>>
========================= RESTART: D:\Modul1\no1.py =========================
*
**
***
****
*****
```

2.

```
def PersegiEmpat(x,y):
    for i in range(x):
        if i== 0 or i== x-1:
            print ("@"*y)
        else:
            print ("@"+" "*(y-2)+"@")
PersegiEmpat(4,5)
```

Hasilnya :

```
========================= RESTART: D:\Modul1\no.2.py =========================
@@@@@
@   @
@   @
@@@@@
>>>
```

3. a.

```
def itung(x):
    vocal='aioueAIOUE'
    aa=0
    for i in x:
        if i in vocal:
            aa+=1
    return(len(x),aa)
print(itung('Surakarta'))
```

Hasilnya :

```
========================= RESTART: D:\Modul1\no3a.py =========================
(9, 4)
```

3. b.

```
def itung(x):
    vocal='bcdfghjklmnpqrstvwxyzBCDFGHJKLMNPQRSTVWXYZ'
    aa=0
    for i in x:
        if i in vocal:
            aa+=1
    return(len(x),aa)
print(itung('Surakarta'))
```

Hasilnya :

```
========================= RESTART: D:\Modul1\no3b.py =========================
(9, 5)
```

4.

```
x=[1,2,3,4]
def rata(x):
    a=sum(x)/len(x)
    print(a)
rata([5,10,5])
```

Hasilnya :

```
6.666666666666667
```

5.

```
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
print(apakahPrima(71))
```

Hasilnya :

```
'''
========================= RESTART: D:/Modul1/no5.py =========================
True
```

6.

```
def prima(x,y):
    for i in range(2,1000,1):
        d=2
        while i%d != 0:
            if d == i-1:
                print(i)
            d = d+1

prima(2,1000)
```

Hasilnya :

```
========== RESTART: D:\Modul1\no6.py ==========
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
149
151
157
163
167
173
```

7.

```
def faktorPrima(x):
    faktor = []
    a = 2
    while a <= x:
        if x% a ==0:
            x/=a
            faktor.append(a)
        else:
            a+=1
    return faktor
```

Hasilnya :

```
>>>
========== RESTART: D:\Modul1\no7.py ==========
>>> faktorPrima(10)
[2, 5]
>>>
```

8.

```
def apakahTerkandung(a,b):
    return a in b
print(apakahTerkandung("db","abcdcdsqwedb"))
print(apakahTerkandung("abd","abc"))
```

Hasilnya :

```
========================== RESTART: D:/Modul1/no8.py ==========================
True
False
>>>
```

9.

```
def iterasi():
    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")
iterasi()
```

Hasilnya :

```
========================= RESTART: D:/Modul1/no9.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.

```
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"
print(selesaikanABC(1,1,2))
```

Hasilnya :

```
>>>
========================= RESTART: D:/Modul1/no10.py =========================
determinan negatif
>>>
```

11.

```
def apakahkabisat(a):
    if(a%400==0):
        return True
    if(a%100==0):
        return False
    if(a%4==0):
        return True
    return False
print(apakahkabisat(100))
```

Hasilnya :

```
========================= RESTART: D:/Modul1/no11.py =========================
False
>>>
```

12.

```
import random
def permainan():
    a=random.randrange(0, 100)
    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
permainan()
```

Hasilnya :

```
========================= RESTART: D:/Modul1/no12.py =========================
masukan angka: 5
terlalu kecil, coba lagi
masukan angka: 56
terlalu besar, coba lagi
masukan angka: 20
terlalu besar, coba lagi
masukan angka: 12
terlalu kecil, coba lagi
masukan angka: 15
terlalu besar, coba lagi
```

13.

```
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
print(katakan(11))
```

Hasilnya :

```
========================== RESTART: D:\Modul1\no13.py ==========================
>>> katakan(236579)
'dua ratus tiga puluh enam ribu lima ratus tujuh puluh sembilan'
>>> katakan(556788)
'lima ratus lima puluh enam ribu tujuh ratus delapan puluh delapan'
>>>
```

14.

```
def formatRupiah(x):
    y = str(x)
    if len(y) <= 3:
        return 'Rp '+y
    else:
        a = y[-3:]
        b = y[:-3]
        return formatRupiah(b)+ "."+a
        print ('Rp ' + formatRupiah(b) +"."+a)
```

Hasilnya :

```
========================== RESTART: D:\Modul1\no14.py ==========================
>>> formatRupiah(175000)
'Rp 175.000'
>>> formatRupiah(25500)
'Rp 25.500'
>>>
```