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Kelas : D

```
print("No.1")
def cetaksiku(x):
    i=1
    while i<=x:
        print("*"*i)
        i+=1
cetaksiku(5)
print("\n\n")
```

1.

```
No.1
*
**
***
****
*****
```

```
print ("No.2")
def PesegiEmpat(a,b):
    i=1
    print("@"*b)
    while(i<a):
       print("@"+" "*(b-2)+"@")
       i+=1
    print("@"*b)
PesegiEmpat(4,5)
print("\n\n")
```

2.

```
No.2
@@@@@
@   @
@   @
@   @
@@@@@
```

3.

```
print("NO.3")
def jumlahhurufvokal(a):
    v="aiueoAIUEO"
    vokal=0
    jumlahhuruf=0
    for i in a:
        jumlahhuruf+=1
        if i in v:
            vokal+=1
    return (vokal,jumlahhuruf)
print(jumlahhurufvokal("surakarta"))
def jumlahhurufkonsonan(a):
    v="bcdfghjklmnpqrstvwxyz"
    konsonan=0
    jumlahhuruf=0
    for i in a:
        jumlahhuruf+=1
        if i in v:
            konsonan+=1
    return (konsonan,jumlahhuruf)
print(jumlahhurufkonsonan("surakarta"))
print("\n\n")
```

```
NO.3
(4, 9)
(5, 9)
```

4.

```
print("No.4")
def rata(b=[]):
    x=0
    n=0
    if b != []:
        for i in b:
            x+=i
            n+=1
        return x/n
    return "illegal"
print(rata([2,2]))
print("\n\n")
```

```
No.4
2.0
```

5.

```
print("No.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))
print("\n\n")
```

```
No.5
True
```

6.

```
print("No.6")
def bilanganprima():
    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)
bilanganprima()
print("\n\n")
```

```
No.6
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.
```
print("No.7")
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
print(faktorprima(143))
print("\n\n")
```

```
No.7
[11, 13]
```

8.

```
print("No.8")
def apakahTerkandiung(a,b):
    return a in b
print(apakahTerkandiung("db","abcdcdsqwedb"))
print(apakahTerkandiung("abd","abc"))
print("\n\n")
```

```
No.8
True
False
```

9.

```
print("No.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()
print("\n\n")
```

```
No.9
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
python
```

10.

```
print("No.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))
print("\n\n")
```

11.

```
print("No.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))
print("\n\n")
```

12.

```
print("No.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()
print("\n\n")
```

```
No.12
masukan angka: 89
terlalu besar, coba lagi
masukan angka: 90
terlalu besar, coba lagi
masukan angka: 56
terlalu kecil, coba lagi
masukan angka: 60
terlalu kecil, coba lagi
masukan angka: 70
terlalu kecil, coba lagi
masukan angka: 78
terlalu kecil, coba lagi
masukan angka: 79
terlalu kecil, coba lagi
masukan angka: 80
benar
```

13.

```
print("No.13")
def katakan(a):
    x={"0":"","1":"Se","2":"Dua ","3":"Tiga ","4":"Empat ","5":"Lima ","6":"Enam
    y={-1:"",-2:"puluh ",-3:"ratus ",-4:"ribu ",-5:"puluh ",6:"ratus ",7:"juta "
    b=str(a)
    c=""
    i=-1
    while i>= -len(b):
        c=x[b[i]]+y[i]+c
        i-=1
    return c
print(katakan(11))
print("\n\n")
```

```
No.13
Sepuluh Se
```

14.

```
print("No.14")
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
print(formatRupiah(50000000))
```

```
No.14
Rp 50.000.000
>>>
```