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Modul : 2

LAPORAN PRAKTIKUM

MODUL 2

```
>>> def cetaksiku(x):  
    i=1  
    while i<=x:  
        print(" "*i)  
        i+=1  
  
>>> cetaksiku(3)  
*  
**  
***
```

```
>>> def gambarlahPersegiEmpat(a,b):  
    i=1  
    print("@"*b)  
    while i<a:  
        print("@"+" "*(b-2)+"@")  
        i+=1  
    print("@"*b)  
  
>>> gambarlahPersegiEmpat(5,5)  
@@@@@  
@    @  
@@@@@  
@    @  
@@@@@  
@    @  
@@@@@  
@    @  
@@@@@
```

```

>>> 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("afgi"))
(2, 4)
>>>
>>> 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("afgiii"))
(2, 6)

```

```

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

>>> print (rerata([2,2]))
1.0

```

```
>>> from math import sqrt as sq
>>> def apakahPrima(n):
    n=int(n)
    assert n>=0
    primakecil=[2,5,7,11]
    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))
True
```

```
>>> 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()
```

```
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
```

```
>>> 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))  
None
```

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

```

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

>>> iterasi()
1
2
python
4
UMS
python
7
8
python
UMS
11
python
13
14
python UMS
16
17
python
19
UMS
python
22
23
python
UMS

```

```

>>> 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))
determinan negatif

```

```
>>> 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))
False
```

```
>>> import random
>>> def permainan():
    a=random.randrange(0,100)
    while(True):
        b=int(input("masukkan angka: "))
        if(b>a):
            print("terlalu besar, coba lagi")
        elif(b<a):
            print("terlalu kecil, coba lagi")
        else:
            print("benar")
            break

>>> permainan()
masukkan angka: 20
terlalu kecil, coba lagi
masukkan angka: 105
terlalu besar, coba lagi
masukkan angka: 0
terlalu kecil, coba lagi
masukkan angka: 100
terlalu besar, coba lagi
masukkan angka:
```

```
>>> 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(30000000))
Rp
```