Variabel

In [6]:
```
nama = 'Deffa'
universitas = 'Universitas Kristen Satya Wacana'
x = 21
```

In [7]:
```
type(nama)
```

Out[7]:
```
str
```

In [8]:
```
type(universitas)
```

Out[8]:
```
str
```

In [9]:
```
type(x)
```

Out[9]:
```
int
```

In [10]:
```
print('Nama Saya adalah',nama,'Saya Berkuliah di',universitas,'Umur Saya',x,'tahun')
```

```
Nama Saya adalah Deffa Saya Berkuliah di Universitas Kristen Satya Wacana Umur Saya 21 tahun
```

Operator Matematika

In [11]:
```
x = 18
y = 7

a = x + y
b = x - y
c = x * y
d = x / y
e = x % y
f = x ** y
g = x // y

print('Hasil Penjumlahan',x,'dengan',y,'=',a)
print('Hasil Pengurangan',x,'dengan',y,'=',b)
print('Hasil Perkalian',x,'dengan',y,'=',c)
print('Hasil Pembagian',x,'dengan',y,'=',d)
print('Hasil Sisa Bagi',x,'dengan',y,'=',e)
print('Hasil Pangkat',x,'dengan',y,'=',f)
print('Hasil Pembagian Bulat',x,'dengan',y,'=',g)
```

```
Hasil Penjumlahan 18 dengan 7 = 25
Hasil Pengurangan 18 dengan 7 = 11
Hasil Perkalian 18 dengan 7 = 126
Hasil Pembagian 18 dengan 7 = 2.5714285714285716
Hasil Sisa Bagi 18 dengan 7 = 4
Hasil Pangkat 18 dengan 7 = 612220032
Hasil Pembagian Bulat 18 dengan 7 = 2
```

Statement Input

In [14]:
```
p = int(input("Masukkan Panjang : "))
l = int(input("Masukkan Lebar : "))
t = int(input("Masukkan Tinggi : "))

K = 4*(p+l+t)

print("Keliling Balok adalah : ",K)
```

```
Masukkan Panjang : 15
Masukkan Lebar : 8
Masukkan Tinggi : 19
Keliling Balok adalah :  168
```

Perulangan

In [1]:
```
for x in range (0,10):
    print(x)
```

```
0
1
2
3
4
5
6
7
8
9
```

In [2]:
```
y = 0

while (y < 10):
    print(y)
    y = y + 1
```

```
0
1
2
3
4
5
6
7
8
9
```

In [4]:
```
z = int(input('Tinggi : '))

for v in range (0,z):
    for w in range (0,v):
        print('*',end='')
    print('')
```

```
Tinggi : 10

*
**
***
****
*****
******
*******
********
*********
```

Percabangan

In [14]:
```
nilai = int(input('Masukkan Nilai : '))

if nilai >= 90:
    print('mendapatkan A')
elif nilai >= 80:
    print('mendapatkan AB')
elif nilai >= 70:
    print('mendapatkan B')
elif nilai >= 65:
    print('mendapatkan BC')
elif nilai >= 60:
    print('mendapatkan C')
else:
    print('mendapatkan E')
```

```
Masukkan Nilai : 90
mendapatkan A
```

List

deklarasi

In [15]:
```
mobil = list()
```

mengisi data

In [16]:
```
mobil = ['1300','canter','pajero sport','carry','panther']
```

In [17]:
```
dataku = ['Paijo',30,175,16,'kuvukiland']
```

menggunakan data

In [19]:
```
print('Nama Saya',dataku[0],'Tinggi Saya',dataku[2],'Saya biasa ke kantor naik',mobil[0])
```

```
Nama Saya Paijo Tinggi Saya 175 Saya biasa ke kantor naik 1300
```

In [20]:
```
#mengganti data
mobil[1] = 'avansah'
```

In [21]:
```
mobil
```

Out[21]:
```
['1300', 'avansah', 'pajero sport', 'carry', 'panther']
```

In [22]:
```
#menambahkan data
mobil.append('hrv')
```

In [23]:
```
mobil
```

Out[23]:
```
['1300', 'avansah', 'pajero sport', 'carry', 'panther', 'hrv']
```

In [24]:
```
dataku.insert(1,'hobi bulu tangkis')
```

In [25]:
```
dataku
```

Out[25]:
```
['Paijo', 'hobi bulu tangkis', 30, 175, 16, 'kuvukiland']
```

In [26]:
```
#menghapus dari nilai
del mobil[1]
```

In [27]:
```
mobil
```

Out[27]:
```
['1300', 'pajero sport', 'carry', 'panther', 'hrv']
```

In [29]:
```
#menghapus dari objek
dataku.remove(16)
```

In [30]:
```
dataku
```

Out[30]:
```
['Paijo', 'hobi bulu tangkis', 30, 175, 'kuvukiland']
```

In [31]:
```
#sorting
mobil.sort()
```

In [32]:
```
mobil
```

Out[32]:
```
['carry', 'hrv', '1300', 'pajero sport', 'panther']
```

In [33]:
```
mobil.pop()
```

Out[33]:
```
'panther'
```

list multidimensi

In [34]:
```
matrix = [
    [1,2,3],
    [4,5,6],
    [7,8,9]
]
```

In [35]:
```
matrix
```

Out[35]:
```
[[1, 2, 3], [4, 5, 6], [7, 8, 9]]
```

In [36]:
```
matrix[1][1]
```

Out[36]:
```
5
```

In [37]:
```
matrix2 = [
    [10,11,12],
    [13,14,15],
    [16,17,18]
]
```

In [45]:
```
matrix3 = matrix + matrix2
```

In [46]:
```
matrix3
```

Out[46]:
```
[[1, 2, 3], [4, 5, 6], [7, 8, 9], [10, 11, 12], [13, 14, 15], [16, 17, 18]]
```

Dictionary

In [5]:
```
motor = dict()
```

In [6]:
```
motor = {'merek':'Honda','nama':'Supra Bapac','kecepatan':'200++km/jam','penghargaan':'motor terrajin service di ahass'}
```

In [7]:
```
motor['nama']
```

Out[7]:
```
'Supra Bapac'
```

In [8]:
```
motor['kecepatan']
```

Out[8]:
```
'200++km/jam'
```

In [9]:
```
for key, val in motor.items():
    print(key,' : ',val)
```

```
merek  :  Honda
nama  :  Supra Bapac
kecepatan  :  200++km/jam
penghargaan  :  motor terrajin service di ahass
```