Keywords in python:

- Keyword:
 - Keywords in python are reserved word that have special meanings.

```
In [2]: 1 # TO print the keywords in python
2 import keyword
3 print(keyword.kwlist)
4 print(len(keyword.kwlist))

['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'p ass', 'raise', 'return', 'try', 'while', 'with', 'yield']
```

Operators:

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- Operator:
 - Operators are used to perform operations on variables and values.
- In python 7 types operators:
- 1. Arithmetic Operators
- 2. Assignment Operators
- 3. Comparision Operators
- 4. Logical Operators
- 5. Identity Operators
- 6. Membership Operators
- 7. Bitwise Operators

```
In [3]:
          1 # 1. Arithmetic Operators:
          2 # It is used for simple mathematical calculations.
          3 # ex: (+,-,*,/,%,//(floor division),**(power))
          4 a = 10
          5 b = 20
          6 print('Addition is: ',a+b)
          7 print('Subtraction is:',a-b)
          8 print('Multiplication is:',a*b)
          9 print('Division is:',a/b)
         10 print('Floor Division:',a//b)
         11 print('Modulus is:',a%b)
         12 print('power is:',a**3)
        Addition is: 30
        Subtraction is: -10
        Multiplication is: 200
        Division is: 0.5
        Floor Division: 0
        Modulus is: 10
        power is: 1000
In [4]:
          1 print(5/2) # division
        2.5
          1 print(5//2) # floor division
In [5]:
        2
          1 print(7%2) # remainder
In [6]:
        1
```

```
In [8]:
           1 # Assignment Operators:
           2 # To assign the value to variable..
           3 # (+=,-=,*=,/=,//=,%=,**=)
           4 a = 34
           5 b = 60
           6 a +=b # a = a+b \Rightarrow a = 34+60 \Rightarrow 94
           7 print('a value is: ',a)
           8 b -=a # b = b-a => 60-94 => -34
           9 print('b value is:',b)
         a value is: 94
         b value is: -34
In [11]:
          1 # Comparision Operator:
           2 # To compare between the two values.
           3 # (>,<,<=,>=,!=,==)
           4 # It returns the boolean values like True or False.
           5 n = 50
           6 m = 78
           7 print(n>m)
```

False True False

8 print(m>n)
9 print(50 == 78)

- Logical Operators:
- To check the two or more conditions at a time.
- It returns the boolean values.
- (and,or,not)
- and truth table

a b a and b T T True T F False F T False F F False

or truth Table

a b a or b not(a) T T True False T F True False F T True True F F False True

False True

True

True

False True

```
In [21]:
           1 # Membership Operators:
           2 # It is mainly used for sequence of object..
           3 # in, not in
           4 # It returns the boolean values
           5 List1 = [10, 20, 30, 40]
           6 print(10 in List1)
           7 print(100 in List1)
           8 print('h' in 'apssdc')
         True
         False
         False
In [22]:
           1 # bitwise operators:
           2 # To convert the data into bitlevel.
           3 # (&(and), |(or), ^(x-or), <<(left shift), >>(right shift), ^(negation))
```

Conditional Statements:

- · To check the conditions
- 1. simple if-else
- 2. elif
- 3. elif-ladder
- 4. nested if-else

simple if-else syntax:

• if(condition): # always true

statements

else:

T T T

```
In [24]:
          1 # To Check whether the given number is even or not?
           2 n = int(input("enter n value: "))
           3 if(n\%2 == 0):
                 print('It is a even number ')
             else:
                 print('it is not a even number')
           6
         enter n value: 19
         it is not a even number
In [25]:
          1 # To check whether the given two numbers are equal or not?
           2 a = int(input("Enter a value: "))
           3 b = int(input("enter b value: "))
           4 if(a == b):
                 print('Two numbers are equal')
           6 else:
                 print('Not equal')
         Enter a value: 10
         enter b value: 20
         Not equal
 In [ ]:
```