```
1  # 1
2
3  The ntow values of boolean data type are 0,1
4  0= False
5  1=True
```

```
1  # 2
2
3  and --> &
4  or  -->|
5  not -->!
6
```

```
1  # 3
2
3
4  and
5
6  a b a&b
7  0 0  0
8  0 1  0
9  1 0  0
10 1 1  1
11
12 or
13
14 a b a|b
15 0 0  0
16 0 1  1
17 1 0  1
18 1 1  1
19
20 not
21
22 a !a
23 0  1
24 1  0
```

In [21]:

```python
1
2  # 3
3
4  _and=[]
5  _or=[]
6  _not=[1,0]
7
8
9  for i  in range(0,2):
10     for j in range(0,2):
11         _and.append(i&j)
12         _or.append(i|j)
13 print("and",_and)
14 print("or",_or)
15 print("not",_not)
```

```
and [0, 0, 0, 1]
or [0, 1, 1, 1]
not [1, 0]
```

```
1  # 4
2
3  1. 0/False
4  2. 0/False
5  3. 1/True
6  4. 0/False
7  5. 0/False
8  6. 1/True
```

```
1  # 5
2  The six comparison operators:
3  <,>,<=,>=,==,!=
```

```
1  # 6
2
3  Assignment operator: this is used to give a value to an variable or to sore a particular value in a variable.It contain one "="
   symbol
4
5  Equal to: this is used to chcek whether the given two values are equal or not
6  it contain two "=" symbols
7
```

```
 8  condition:
 9
10  a=5   asiigning 5 to variable "a"
11  a==5 checking weather value inside "a" is 5 or not
12
13  assignment operator is when we need assigning values
14  eqqual to operator is used in conditional statments
15
```

```
1  # 7
2
3  three blocks
4
5  one is "if block "if spam==10
6  second one is "another if block" if spam>5
7  third one is "else block"
```

In [10]:

```python
 1  # 8
 2
 3  spam=input("enter a any value for spam")
 4  if spam=="1":
 5      print("Hello")
 6  elif spam=="2":
 7      print("Howdy")
 8  else:
 9      print("Greetings!")
10
```

enter a any value for spam hbjukj

Greetings!

```
1  # 9
2
3
4  key : control+c
```

```
1  # 10
2
3
4  break: it will break the current loop and move thee execution to out of the main loop and execute rest of code
5  continue:it will stop the current loop and execute the remaing part of the same loop
```

```
1  # 11
2
3  range(10): no start and step points are given,only end pint is given .loop run for 10 times and range vary from 0 to 9.by
   incrementing 1 agter every loop.
4  range(0,10) : statring,end points is given.loop run for 10 times and range satarts from 0 and ends at 9.by incrementing 1 agter
   every loop.
5  range(0,10,1): start,endand step points are given.loop run for 10 times and range satarts from 0 and ends at 9loop run for 10
   times and range satarts from 0 and ends at 9.by incrementing 1 agter every loop.
```

In [12]:

```python
# 12
for i in range(1,11):
    print(i)

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

```
1
2
3
4
5
6
7
8
9
10
1
2
3
4
5
6
7
8
9
10
```

```
# 13

import spam
  calling bacon(): spam.bacon()
```