In [15]:

```
a = True
print(type(a))
print(id(a))
a = bool(252)
b = bool(252)
print(id(a))
print(id(b))
# Arithmetic Operations
a = bool(25)
b= bool(19)
c = a + b
print(c)
c = a - b
print(c)
c = a*b
print(c)
c = a/b
print(c)
c = a**b
print(c)
print(a>b)
print(a<b)</pre>
print(a>=b)
print(a<=b)</pre>
# Equality Operator
print(a==b)
print(a!=b)
# Logical operators
print(True and True)
print(False and True)
print(True and False)
print(False and False)
print(True or True)
print(False or True)
print(True or False)
print(False or False)
print(not True)
print(not False)
# Bitwise Operators
print (True & True)
print (True | False)
print (True ^ False)
print (~ True)
print (True<<2)</pre>
print (True>>2)
a = True
```

```
b = True
print(a is b) #True
print(a is not b) #False

a = False
b = False
print(a is b) #True
print(a is not b) #False

# Membership operation

print(True in [10,10.20,10+20j,'Python', True])
print(False in (10,10.20,10+20j,'Python', False))
print(True in {1,2,3, True})
print(True in {True:100, False:200, True:300})
print(False in {True:100, False:200, True:300})
```

```
<class 'bool'>
140722186213200
140722186213200
140722186213200
2
0
1
1.0
1
False
False
True
True
True
False
True
False
False
False
True
True
True
False
False
True
True
True
True
-2
4
0
True
False
True
False
True
True
True
```

True True