Operators

Assignment Operators

- a = 10
- print(a)
- **→** 10
- b = 5
- a = b
- print(a)
- **→** 5
- c = 10
- c += 12 # c = c+12
- print(c)
- **→** 22
- d = 20
- d -= 7 # d = d-7
- print(d)
- **→** 13
- e = 100
- e *= 2 # e = e*2 , 100*2 = 200 print(e)
- e /= 5 # e = e/5, 200/5 = 40.0
- print(e)
- 200 40.0
- f = 14
- f %= 5 # f = f%5
- print(f)
- → 4
- g = 12 g //= 5
- print(g)
- **→** 2

Bitwise Operators

14 &	21
→	4
bin(14)
→	'0b1110'
bin(21)	
→	'0b10101'
14	21
₹	31
14 ^	21
→	27
~13	
₹	-14
~105	
→	-106
~-14	
₹	13
~-1156	
→	1155
~0	
→	-1
Left	Shift (<<) & Right Shift(>>)
<pre>print(10<<2) print(10>>2)</pre>	
	40 2
	t(120<<1) t(120<<2)

print(120<<1)
print(120<<2)
print(120<<3)
print(120<<4)

→ 240
480
960
1920

```
print(-120<<1)
print(-120<<2)
print(-120<<3)
print(-120<<4)
→ -240
     -480
     -960
     -1920
print(120>>1)
print(120>>2)
```

print(120>>3) print(120>>4)

print(-120>>1) print(-120>>2) print(-120>>3) print(-120>>4)

→ -60 -30 -15 -8

120//(2**4)

→ False

→ 7

Membership Operators

```
"in" & "not in"
players = ["Kohli", "Ponting", "Clarke"]
print("Kohli" in players)
print("kohli" in players)
→ True
     False
"Rohit" not in players
→ True
"Kohli" not in players
→ False
k = set((6,2,3,5))
print(k)
2 in k
 \rightarrow  {2, 3, 5, 6}
     True
"2" in k
```

```
2.0 in k
→ True
True in k
→ False
k = set()
True in k
→ False
statement = "Virat is best ODI
                                  player in this era"
   player" in statement
→ True
Identity Operators
"is" & "is not"
11 = [1,2,3,4,5]
12 = [1,2,3,4,5]
print(id(l1))
print(id(12))
13 = 11
print(id(13))
print(12 is 11)
print(13 is 11)
print(l1 is 13)
print(l2 is not l1)
print(l1 is not l2)
133869667189120
     133869667191040
    133869667189120
    False
    True
     True
     True
     True
11 = (1,2,3,4,5)
12 = (1,2,3,4,5)
print(id(l1))
print(id(12))
13 = 11
print(id(13))
print(l2 is l1)
print(13 is 11)
print(l1 is l3)
print(12 is not 11)
print(l1 is not l2)
    133869667144928
```

133869668244256

133869667144928 False True True True True print(l1 is not l3) **→** False a = 1200b = 1200print(id(a)) print(id(b)) print(a is b) print(b is a) **→** 133869667116560 133869667115824 False

Operator Precedence

False

5+12*7/2-10

→ 37.0

~-2