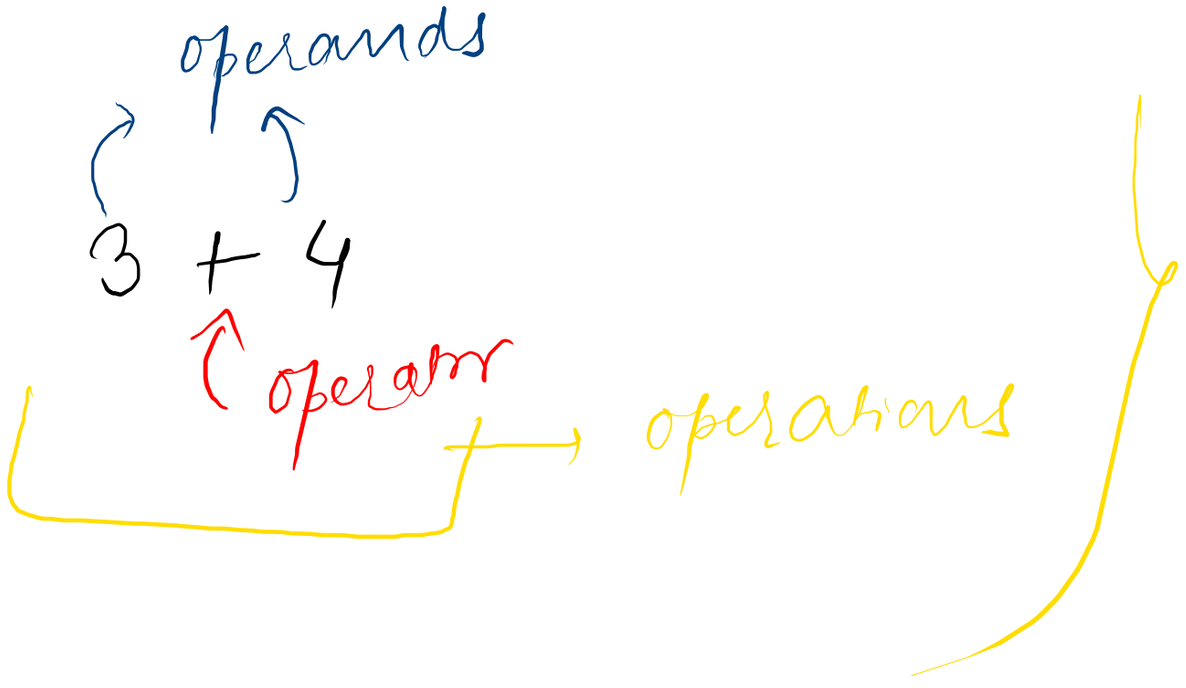

operands
3 + 4
operator
operations

1. Arithmetic
2. comparison
3. logical
4. Assignment
5. Bitwise
6. Membership
7. Identity operators

AND

T T → T

T F → F

F T → F

F F → F

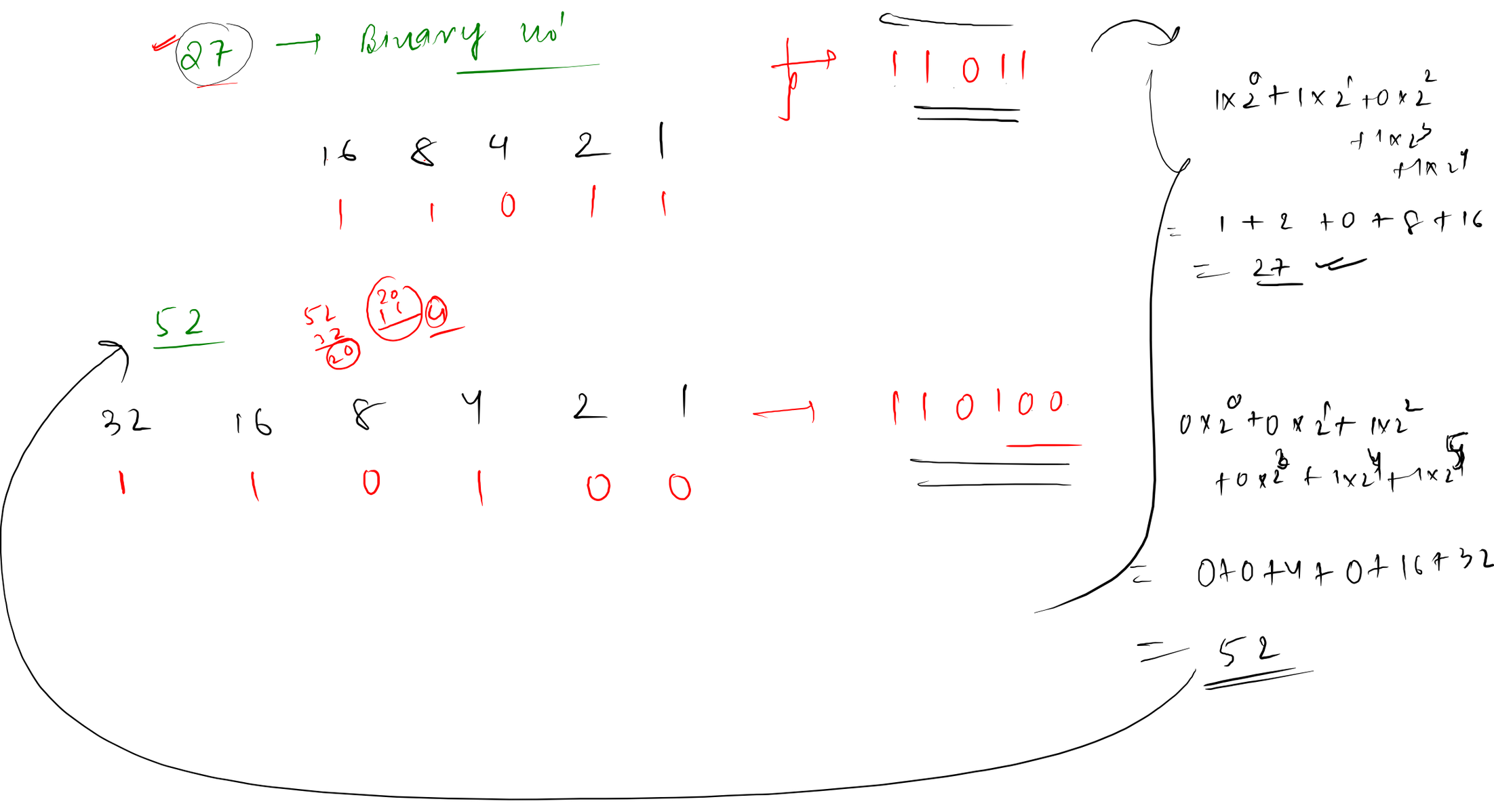
OR

T T → T

T F → T

F T → T

F F → F


27 → Binary no'
16 & 4 2 1
1 1 0 1 1
11011
1×2^0 + 1×2^1 + 0×2^2 + 1×2^3 + 1×2^4
= 1 + 2 + 0 + 8 + 16
= 27
52
52 / 2 = 26 (0)
26 / 2 = 13 (0)
13 / 2 = 6 (1)
6 / 2 = 3 (0)
3 / 2 = 1 (1)
1 / 2 = 0 (1)
32 16 8 4 2 1
1 1 0 1 0 0
110100
0×2^0 + 0×2^1 + 1×2^2 + 0×2^3 + 1×2^4 + 1×2^5
= 0 + 0 + 4 + 0 + 16 + 32
= 52

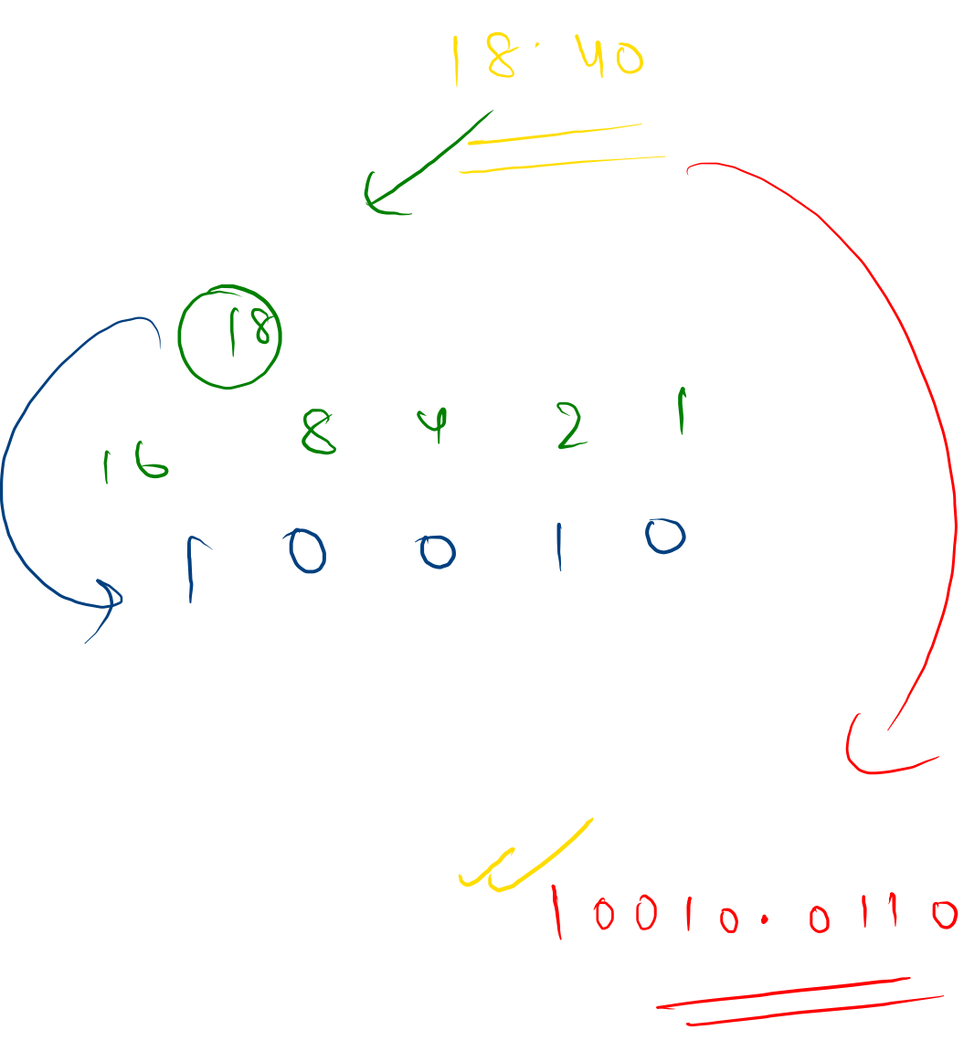
1.25 → Binary No's

1 → 1

0.25 x 2 = 0.5 → 0

0.5 x 2 = 1 → 1

1.01



0.40 → 0110

= 0.40 × 2 = 0.80 = 0

0.8 × 2 = 1.6 = 1

0.6 × 2 = 1.2 = 1

0.2 × 2 = 0.4 = 0

0.3

$0.3 \times 2 = 0.6 \rightarrow 0$

$0.6 \times 2 = 1.2 \rightarrow 1$

$0.2 \times 2 = 0.4 \rightarrow 0$

$0.4 \times 2 = 0.8 = 0$

$0.8 \times 2 = 1.6 = 1$

0.6

Repeating

exactly representing 0.3 in binary form

$0.3 = 0.01001$