

String

⋮

double
float

int

superiority

implicit type casting

$$\begin{array}{r} 4.8 \\ + 4.0 \\ \hline 8.8 \end{array}$$

$$\begin{array}{c} \textcircled{4.8} + \textcircled{4} = \textcircled{8.8} \\ \text{double} \quad \text{int} \quad \text{double} \end{array}$$
$$\begin{array}{c} 4 + 4 = 8 \\ \text{int} \quad \text{int} \quad \text{int} \end{array}$$

Arithmetic Operators $\rightarrow +, -, /, *, \%$

Relational Operators \leq \downarrow 2.00 (20/8)

floor
division

$>, <, \leq, \geq$

$, ==, !=$

$8 == 8$

$7 > 8$

~~Ques~~
Output of any relational
operator is a boolean.

$$8 \mid 9$$

$$20 \mid 8 = 2$$

→

2
8
20
16
4

SOP (8 == 9);

$$\begin{array}{r} 10 \overline{) 29} \\ \underline{20} \\ 9 \end{array}$$

$$\underline{29/10}$$

Logical operators

Logical Operators

Logical AND (&&)

Logical OR (||)

Logical NOT (!)

True AND True = True

Truth AND

T	T	T
T	F	F
F	T	F
F	F	F

$$\overline{0} \text{ OR } T = T$$

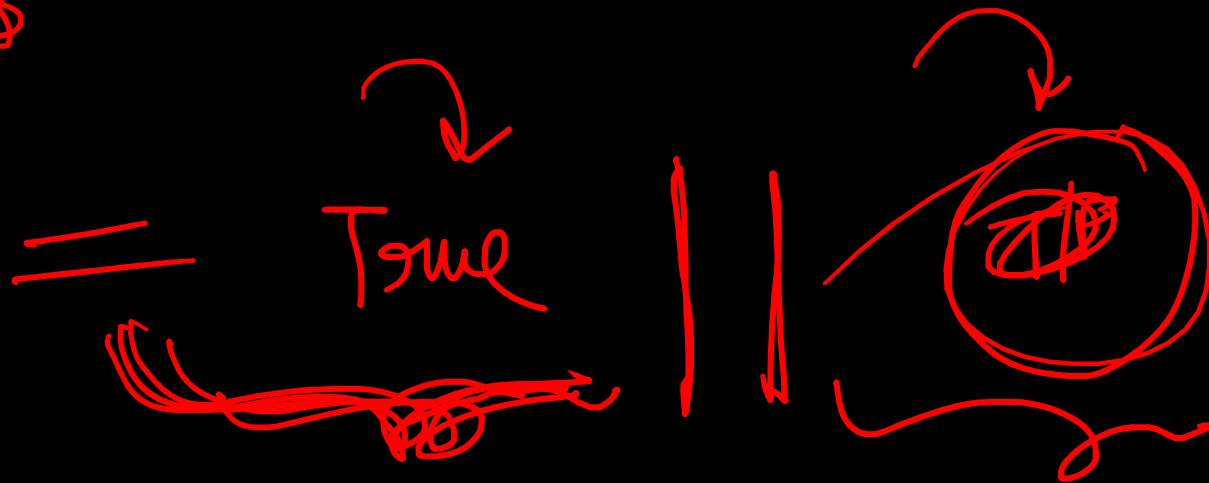
$$T \text{ OR } F = T$$

$$F \text{ OR } T = T$$

$$F \text{ OR } F = F$$

$$\cancel{\text{SOP}} \left(\overbrace{Q=3}^F \right) \parallel \left(\overbrace{S=7}^T \right)$$

~~Q~~



Short Circuit

