GOOD EVENING EVERYONE

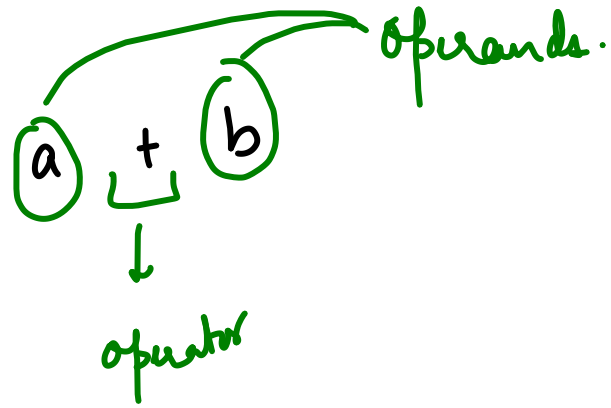
We will start @ 9:10pm

Operators

↳ symbols that are used to perform some operations operation.

Operands → on which we are applying

Ex :-



Types of operators

① Arithmetic Operator

↳ used to perform basic mathematical operations

↳ +, −, /, *, %

3+2 → 5

3-2 → 1

3/2 → 1 (quotient)

3+2 → 5

3%2 → 1 (remainder)

3/2 = 1 → int

3/2 = 1.5 → double.

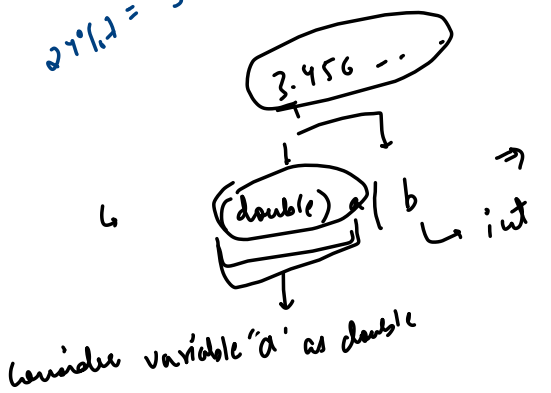
24/7 = 3

24%7 = 3

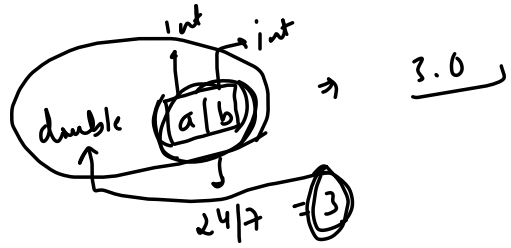
3%2 = 1

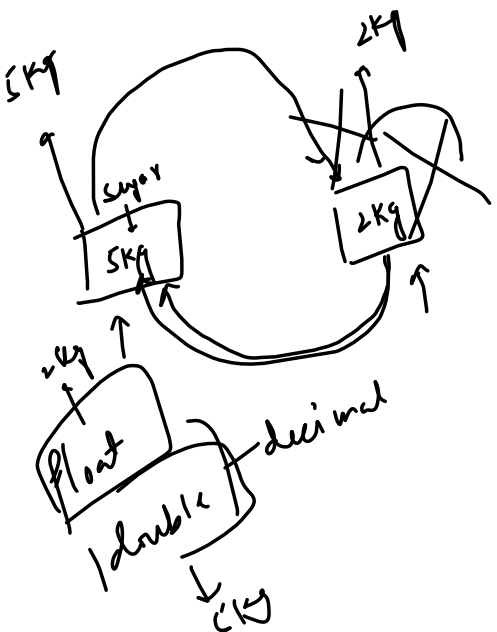
1%.5 = 1

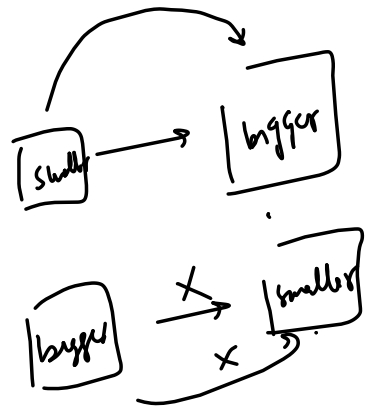
5%3 = 2

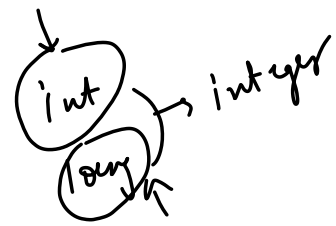


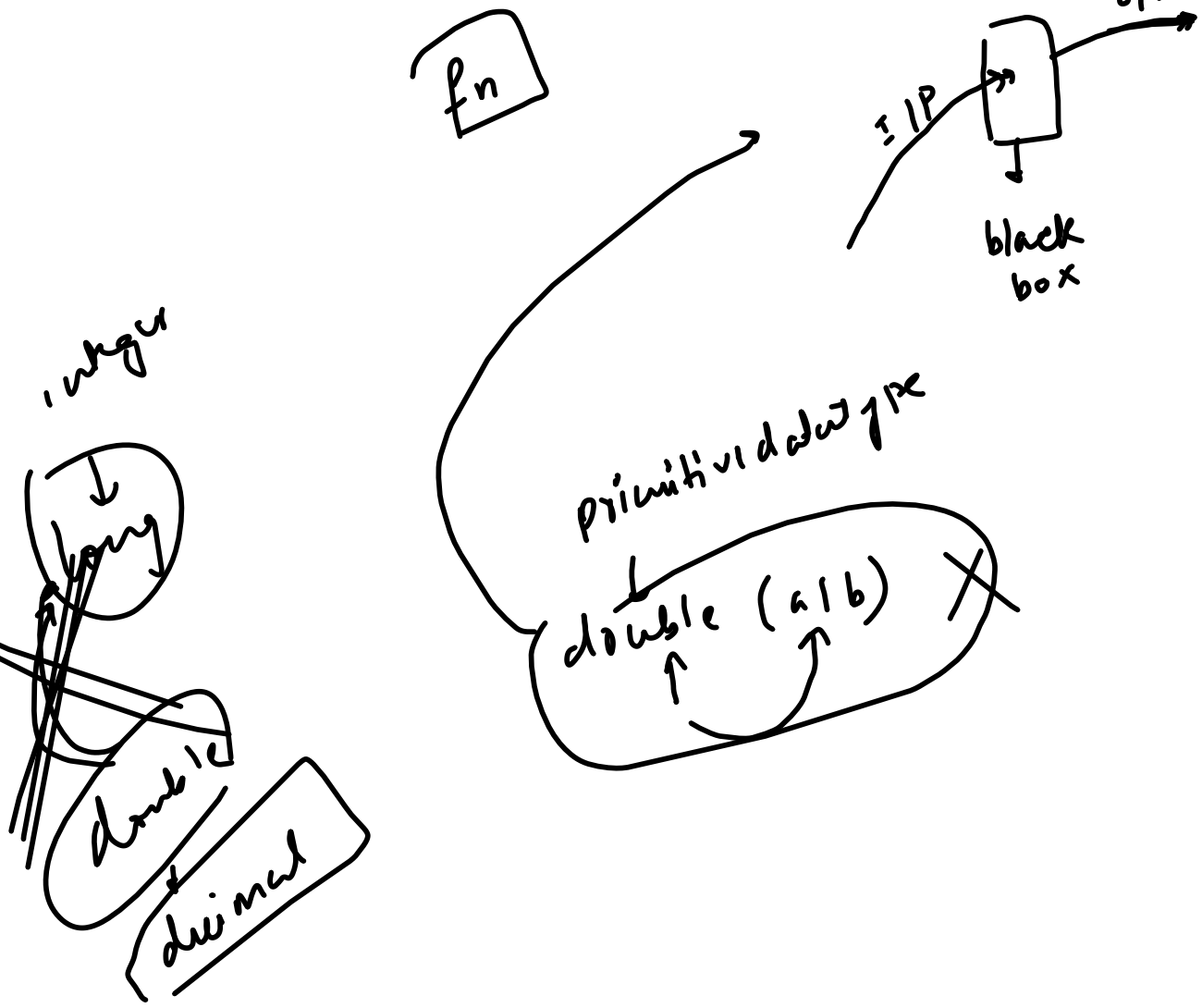
⇒ double.

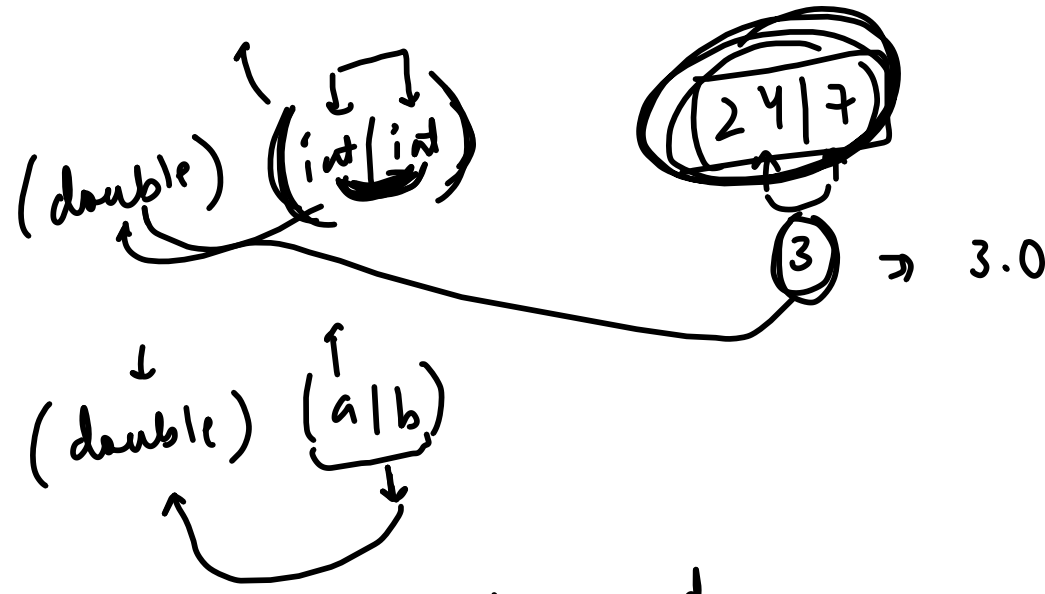




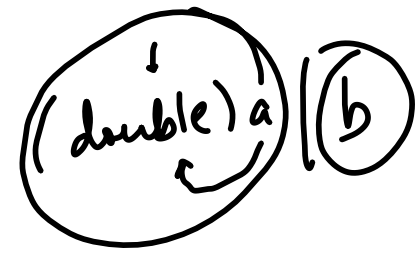




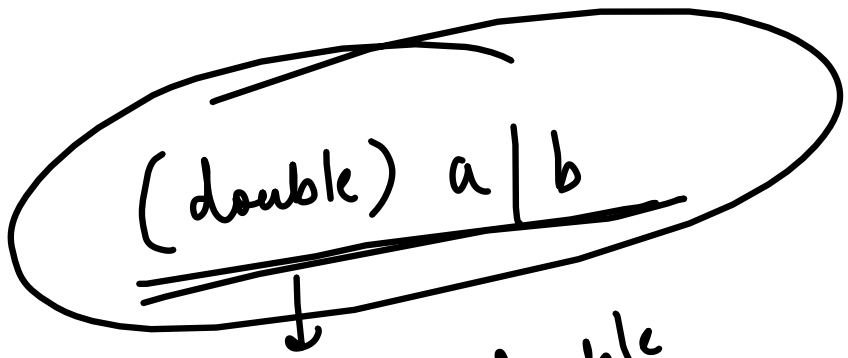




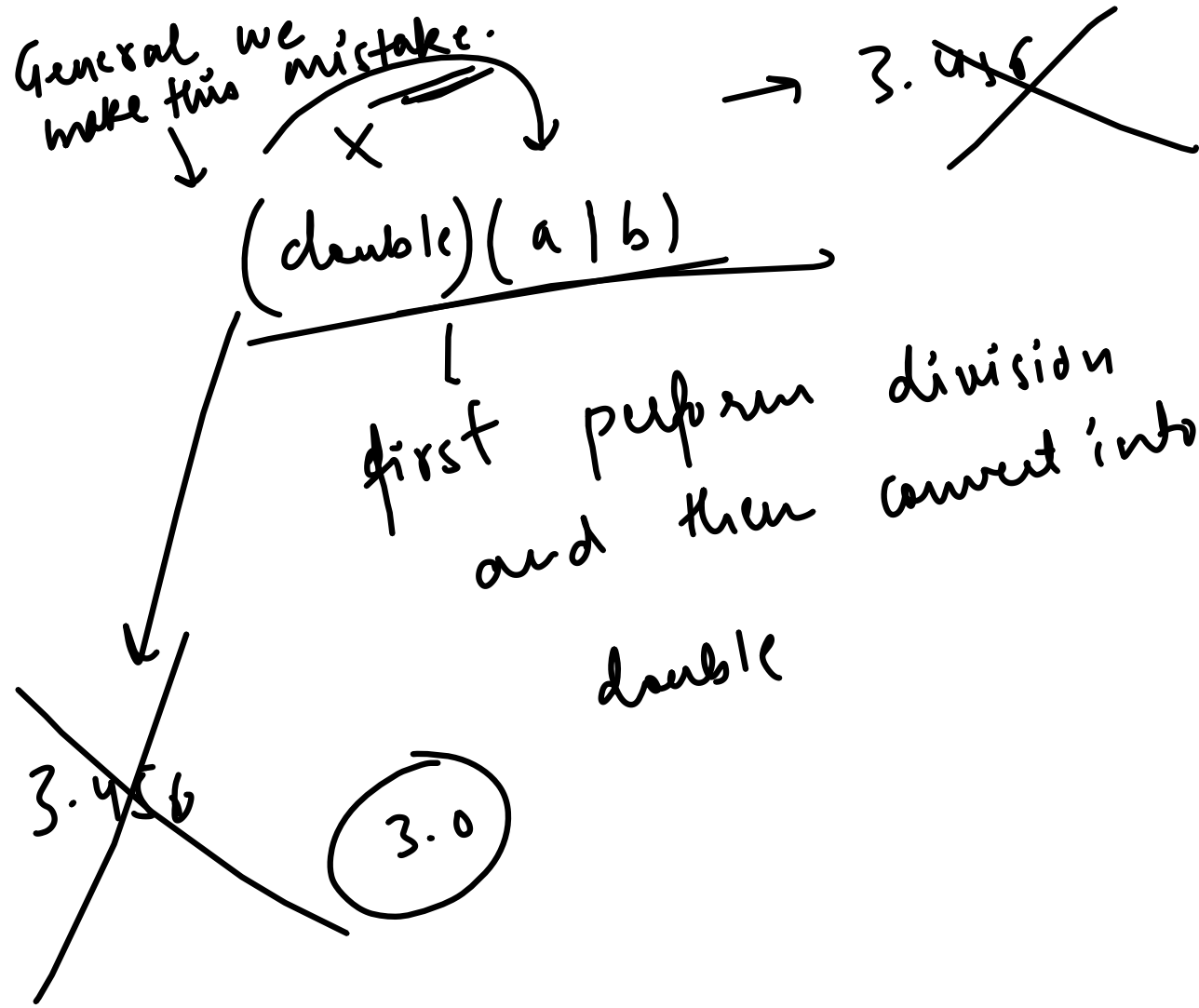
perform division and typecast to double.



24.0 / 7 = 3



convert a to double
and then perform
division



H.W:

↳ Use modulus operator with float or double value?

(2) **Assignment operator** (=)

↳ used to assign values.

int a = 10

→ int a = 10

Increase the value of 'a' by 20

→ a = a + 20; // 30

or

→ a += 20; // 30

→ - ⇒ a -= 20; → a = a - 20;

→ * ⇒ a *= 20; → a = a * 20;

→ / → a /= 20; → a = a / 20;

→ % → a %= 20 → a = a % 20;

(3) Comparison Operator

↳ used to compare values.

↳ o/p → boolean (true | false)

↳ == (equal) → int a = 30; int b = 50; int c = 30;

a == b ✗ → false

a == c ✓ → true.

↳ != (Not equal) a != b ✓ true

↳ > (Greater than) a > b ✗

↳ < (less than) a < b ✓

↳ >= (Greater than or equal to) a >= b ✗

a >= c ✓

↳ <= (less than or equal to)

↳ a <= c ✓

↳ a <= b ✓

(4) Ternary Operator

Syntax : (condition) ? value1 : value2;

|| value1 is an answer when cond^n is true.

|| value2 is an answer when cond^n is false.

Ex:-

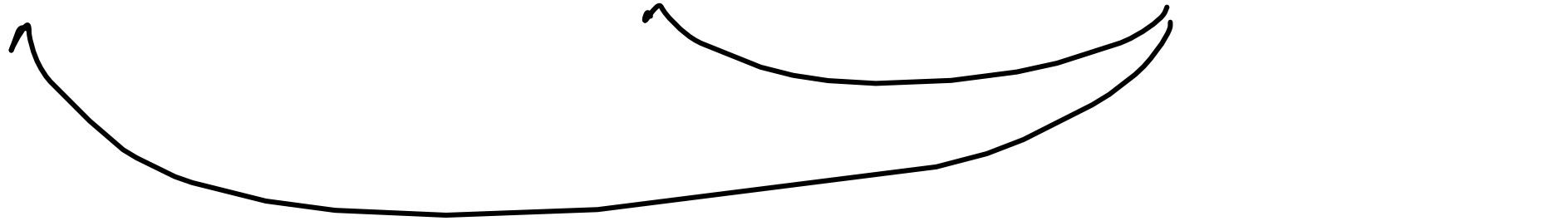
```
int a = 20;
int b = 30;
```

```
a == b ? 1 : 0
```

↳ true → 1

↳ false → 0

(5) logical operator | Bitwise operator → Bit manipulation



Q- WAP to convert celsius to fahrenheit

double celsius = 32.5;

F = (C * 9/5) + 32;

print.

7 mins

→ 10:32 pm

Q- WAP to calculate SI (Simple Interest)

SI = $\frac{P \times R \times T}{100}$

where P = principal T = Time

R = Rate

→ 10:47 pm