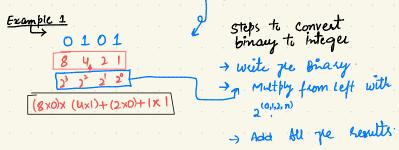
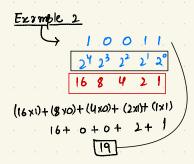
Binary →





what are binary numbers?

A Binary numbers are a system of numbers using only two digits 081 (base 2). They are crucial in computing 8 digital electronics because computers and electronic device operate using 2 startes -> on(1) and off(0).

Key points

- * used in computers for data Storages.
- A used in Digital Circuits
- * Data Transmission (eq: internet, networking)
- * Essential for Programming, algos 8 essor detection

steps to convert Int to Binary

- \rightarrow Divide number by 2
- -> Record The Lemainder

76 the result of division is not whole, the remainder will be 1. If divides evenly remainder will be 1.

The Quotient becomes

you new number,

repeat The process

untill Quotient is

zew

→ Read all the remainder and reverse them those one the binary numbers

$$\begin{array}{c} \underline{\text{examples}} \to & \mathcal{B} \\ & \mathcal{B} \div \mathcal{A} \to & \mathcal{Y}, \ 0 \\ & \mathcal{Y} \div \mathcal{A} \to & \mathcal{A}, \ 0 \\ & 2 \div \mathcal{A} \to & 1, \ 0 \\ & 1 \div \mathcal{A} \to & 0, \ 1 \end{array}$$

```
5= 101
```

```
JavaScript \
  function intBinary(int) {
    let binary = []
    let quotient = int;

    while(quotient > 0) {
        let remainder = quotient % 2;
        binary.unshift(remainder);
        quotient = Math.floor(quotient / 2)
    }
    return binary
}

console.log(intBinary(10));
```