Recorded Lecture

classmate
Date
Page 22

Number System

Definition

Method to represent numeric value or quantities different digits.

Binary Number System

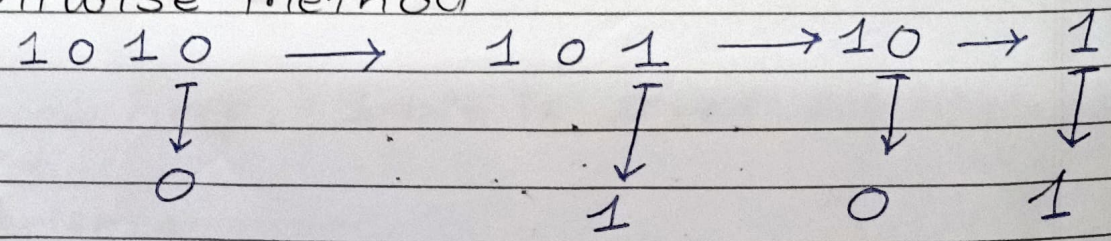
1. Number system using base 2.
2. It uses only two digits i.e 0 and 1.

Decimal to Binary conversion

for e.g →
Number ⇒ 10

		Rem
10/2	→ 5	0
5/2	→ 2	1
2/2	→ 1	0
1/2	→ 0	1

Bitwise Method



Binary to Decimae

Binary = $(1010)_2$

1010 % 10 ⇒ 0
dec ⇒ 0 + 0 × 2^0 ⇒ 0

⇓

101 ⇒ 1
dec ⇒ 0 + 1 × 2^1 ⇒ 2

⇓

10 ⇒ 0
dec ⇒ 2 + 0 ⇒ 2

⇓

1 ⇒ 1
dec ⇒ 2 + 8
dec ⇒ 10