Module 3 Checksum, CRC

Sunday, 12 May 2024 4:04 PM

Checksum :

Eg : 7, 11, 12, 0, 6

7 + 11 + 12 + 0 + 6 = 36

10 0 100

→ 10

0110 → 6

→ (1's complement)

1001 → 9

[7, 11, 12, 0, 6, 9] → Receiver Side

7 + 11 + 12 + 0 + 6 + 9 = 45

10 1101

→ 10

1111 → 1's complement

↓

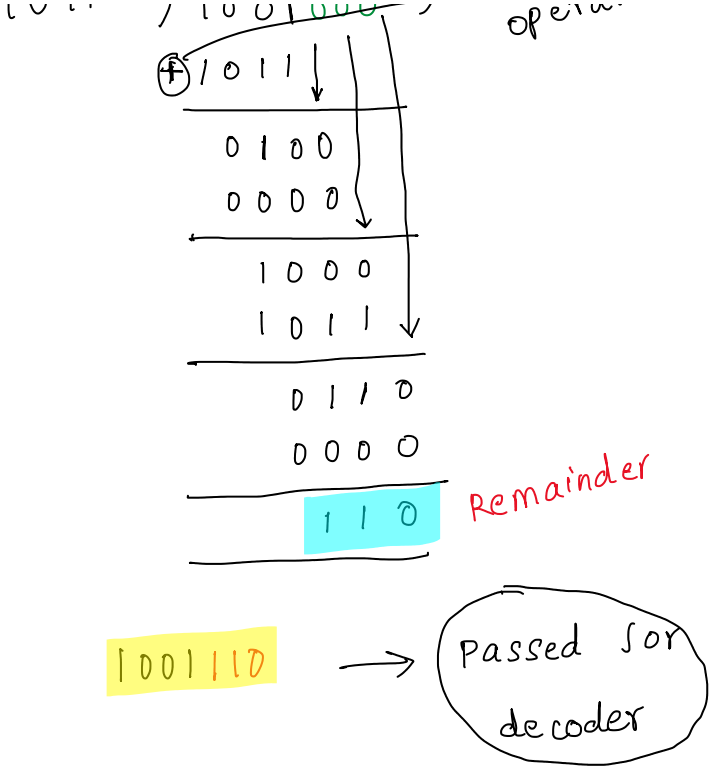
0

CRC :

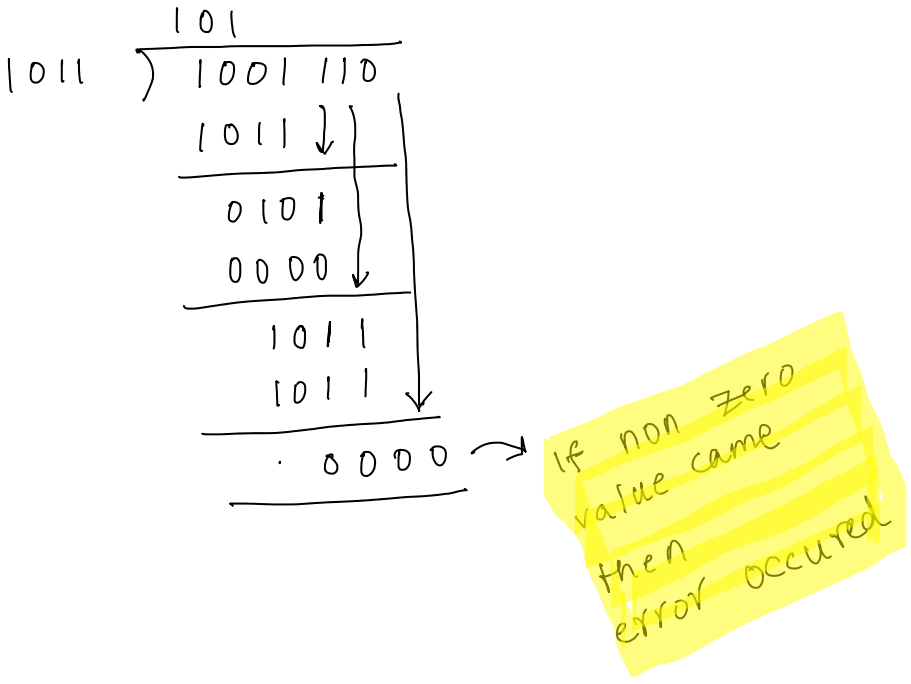
Dataword : 1001

Divisor : 1011

```
       1010
1011 ) 1001000  → xor operations
     ⊕ 1011
```


1011
0100
0000
1000
1011
0110
0000
110
Remainder

1001110
Passed for decoder


101
1011
1001 110
1011
0101
0000
1011
1011
0000
If non zero value came then error occured