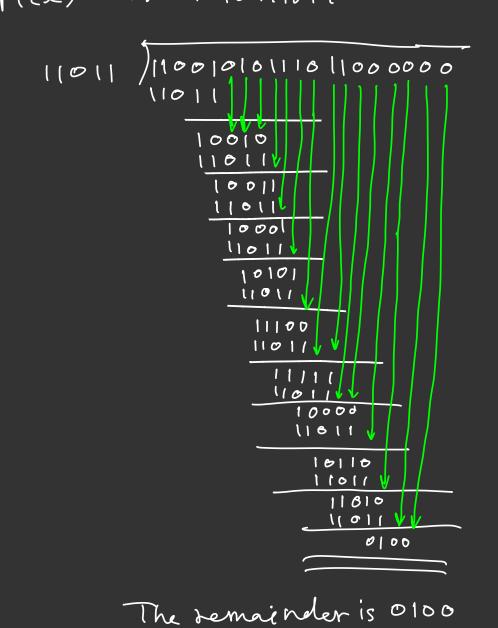
Exercise 3 [20%]

11011 [100101011011000000

- Given $G(x) = x^4 + x^3 + x + 1$ generator polynomial
- Calculate the 4-bit CRC for the input 1100 1010 1110 1100
- The message above will degrade during the transmission.
- The receiver's data link layer will receive 1100 1010 1101 1010 0100.
- · Is the error detectable by the generator polynomial? If not, why?

$$G(x) = x^4 + x^3 + x + 1$$
 L=5
4-bit crc is med L-1=4
 $G(x) = 11011$
 $M(x) = 1100101011011000000$



Check is the received data's exporting of (x)

1100 1010 1101 1010 0100 0000 11011 10011 10010 11011 1011 10010 11011 10010 11011 10010 11011 10010 11011 10010 11011 10010 11011 10010 11011 10010 11011

#ANS# The error is detectable by The polynomial.