CRC – Cyclic Redundancy Check – see prep Q and A #4

Use the CRC method to determine the Frame Check Sequence (FCS) for the following message and polynomial.

- Message (M) = 110011
- Polynomial (P) = 11001

Hamming Codes – See Exam 2 Take Home Ans #4

Determine the Hamming code and the resulting transmitted message for

M = 111001101

Show how if BIT 6 is flipped, that it situation will be detected at the receiver.

Automatic Request for Retransmission – ARQ – see Prep Q and A #10

Using the ARQ flow control method, fill in the "X" and "Y"….. with the appropriate values 0-7 for each of the following conditions:

Condition A – ALL frames are received error free

X =
Y =

Condition B – Frame 6 is received in error

X =
Y =

N(s)	1	2	3	4	5	6	7	
N(r)	0	0	1	2	2	2	2	

N(s)	0	1	X
N(r)	3	4	Y

Automatic Request for Retransmission – ARQ

Create two (2) conversations, each between 2 hosts, to illustrate SELECTIVE REPEAT and GO-BACK-N ARQ flow control protocol scenarios. You need to give TWO examples, one for each scenario. You should include a written explanation so it is clear what you are indicating in your scenarios.