1.	Using EVEN parity, add parity bits to the following bit patterns: a. 0110 100
	b. 1011 011
	c. 0000 000
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2.	Using ODD parity, add parity bits to the following bit patters: a. 0110 100
	b. 1011 011
	c. 0000 0000
3.	Using EVEN parity, state whether the following bit patterns are correct: a. 0101 0101
	b. 1101 0110
	c. 0010 0011
4.	State two DISadvantages of using parity bits to detect errors.
5.	Describe what might happen if an error is detected using parity bits.
6.	Give 2 reasons why Hamming Codes are more efficient than parity bits for longer bit patterns (e.g. 32 bits or more).

- 7. Use Hamming Codes and EVEN parity to create a bit pattern to transmit the values:
  - a. 1001

Position	1	2	3	4	5	6	7
Bit							

b. 1011

Position	1	2	3	4	5	6	7
Bit							

8. Use Hamming Codes and ODD parity to say whether the following transmissions are correct. There they are not, calculate the correct bit pattern:

a.

Position	1	2	3	4	5	6	7
Bit	1	1	0	0	1	1	1

b.

Position	1	2	3	4	5	6	7
Bit	1	1	1	0	1	0	1

9. Convert the following to binary codes –hence name the type of encoding used.

