- 1. A byte of data read from memory in an x88 based microprocessor is observed with an instrument to be 11000110B. [Hint: 'B' means binary]
  - a. Express the data as a hexadecimal number.
  - b. What is the decimal value of the data if it is unsigned
  - c. What is the decimal value of the data if it is signed (use 2's complement)?

- 2. The address output on the address bus of an x88 microprocessor is 100000000001011010B.
  - a. Express the address in hexademical form.
    - i. What is the hex value of the MSByte?
    - ii. What is the hex value of the LSByte?
  - b. What is the equivalent decimal value?

3. Express how the decimal number -950 would be represented for processing by the x86 assuming the value is stored as a word of data.

4. What is the doubleword value stored in memory starting at address C0007H if the contents of memory locations C0007H, C0008H, C0009H, C000AH, C000BH, C000CH, C000DH, and C000EH are 12H, 34H, 56H, 78H, 90H, 10H, 20H, and 30H, respectively using little endian?

5. What is "little endian" data?