

## **CM1604 Computer Systems Fundamentals**

### **Tutorial No: 02**

01. Convert the IEEE754 representation C2A70000 to a decimal number. Clearly indicate your steps.
02. What is the binary representation of the signed integer -97 using an 8-bit representation? Show your workings.
03. What is the binary representation of the signed integer 87 using an 8-bit representation? Show your workings.
04. What is the binary representation of the signed integer -77 using an 8-bit representation? Show your workings.
05. What is the IEEE 754 representation (using 8 hexadecimal characters) of the signed decimal number -27.625?
06. What is the IEEE 754 representation (using 8 hexadecimal characters) of the signed decimal number 68.125?
07. What is the IEEE 754 representation (using 8 hexadecimal characters) of the signed decimal number -96.375?
08. Convert the IEEE754 representation 42AC0000 to a decimal number. Clearly indicate your steps.
09. Convert the IEEE754 representation C21E0000 to a decimal number. Clearly indicate your steps.
10. Convert the IEEE754 representation 42C10000 to a decimal number. Clearly indicate your steps.