CS1021 Tutorial 1

DON'T USE A PROGRAMMER CALCULATOR TO ANSWER THESE QUESTIONS

- Q1 Convert the following 8 bit <u>unsigned</u> binary numbers to decimal (i) 01101001_2 (ii) 1000000_2 and (iii) 11111111_2 .
- Q2 Convert the following decimal numbers to 8 bit <u>unsigned</u> binary numbers (i) 79 (ii) 44 and 126.
- Q3 Convert the following 8 bit <u>signed</u> binary numbers to decimal (i) 01101001_2 (ii) 10010110_2 and (iii) 11110000_2 .
- Q4 Convert the following decimal numbers to 8 bit signed binary numbers (i) 79 (ii) -44 and -126.
- Convert the following 8 bit binary numbers to hexadecimal (i) 011011012 (ii) 101100002 and (iii) 1011011919 gnment Project Exam Help
- Convert the following decimal numbers to 16 bit unsigned hexadecimal numbers (i) 51,966 (ii) 64,222 and (iii) 48,800 WECNET DOWCOGET
- Q7 Convert the following 16 bit <u>unsigned</u> hexadecimal numbers to decimal (i) 0xABCD (ii) 0xF000 and (iii) 0x0FFF
- Q8 Convert the following 16 bit <u>signed</u> hexadecimal numbers to decimal (i) 0xABCD (ii) 0xF000 and (iii) 0x0FFF.
- Q9 Calculate and convert the hexadecimal numbers and answers to decimal assuming 16 bit unsigned and signed integers (i) 0x1234 + 0xAAAA (ii) 0x468A + 0xAAAA (iii) 0xAAAA 0x1234 and (iv) 0x7AAA 0x6BBB
- Q10 Convert the following unsigned binary numbers to decimal (i) 1010.001012 and (ii) 0.10012.