Answer the following questions. Show your work, no work no credit even if the answer is correct

Type your answer and make the final answer distinguished

1- In an 8-bit binary, which is the most significant bit (MSB), what decimal value does it have?
2- What is the decimal representation of each of the following unsigned integers?
   a. 00110101
   b. 10010110
   c. 11001100
3- What is the sum of each pair of binary integers?
   a. 10101111 + 11011011
   b. 10010111 + 11111111
   c. 01110101 + 10101100
4- What is the minimum number of binary bits needed to represent each of the following unsigned decimal integers?
   a. 4095
   b. 65534
   c. 42319
5- How many different numbers can be represented with 23 bits?
6- Write a Java/C++ program that contains the calculation shown below.
   int Y;
   int X = (Y + 4) * 3;