CSE 101 - Introduction to Programming Tutorial 1

Q1. What are the bases in the following number systems?

Q2. What are the set of valid digits in the following number systems?

a. Decimalb. Binaryc. Octal

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d. Hexadecimal

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Q3. Convert from Decimal to Binary: a. 614 b. 0.1640625
Q4. Convert from Binary to Decimal: a. 11001001 b. 110010.01
Q5. Convert from Hexadecimal to Binary: a. FAB1 b. 1234
Q6. Convert from Binary to Hexadecimal and Octal: a. 11011100 b. 10101
Q7. Convert into offset and 2's complement with 8 bit representation: a. 6 b25
Q8. Perform operation using 2's complement the following operations: a. 55 - 3 b. 7 - 120

Q9. What is the range of numbers that can be represented using 8 bits in 2's complement form?

Q10. What is the range of numbers that can be represented using 8 bits in Offset or Biased representation?