Convert the following BCD values to Decimal? If not possible, state why.

0001100110010101 seperate into 4 bits 1995

010100101100 52C = +52

010100101010 52A = not valid, cant have A in BCD

011110001101 78D = -78

110001010101 C55 = not valid. C is supposed to be on right not left

Assuming the following binary values are encoded in UTF-8, what are the Unicode points? If not possible, state why.

11000010 01001100 invalid, second byte needs to start with 10

11100000 10101000 invalid

11000010 10100110 00010100110 u+0a6 u+a6

11100000 10101000 10011010 0000 1010 0001 1010 u+0a1a

Assuming the following binary values are encoded as single precision floating point, what decimal value is encoded (leave in base2 scientific notation)

1000000001010…0 -0.101 x2^126

0000000111010…0 +1.101 x2^-124

0111111110000…0 + infinity

0111111100000…0 +1.0 x2 ^127

0000000000000…0 0

0000000010000…0 +1.00 x2^-126

0000000001000…0 + 0.1000 x2^-126