

Assignment 1
Computer Architecture – COSC 2334, Fall 2021

1. Complete the table by converting the requested number to/from decimal, binary, octal and hexadecimal.

Decimal	Binary Number of bits =8	Octal	Hex
145			
	11001110		
		354	
			F5

2. Convert the following 8 bits signed binary numbers to 1 complement and 2 complements.

Binary (8 bits)	1's Complement	2's complements
10101100		
01010010		

3. Convert the decimal to binary and then use 2's complements to find result.

$$18 + (-9) = ??$$

Step 1: Convert 18 to binary:

Step 2: convert -9 to binary

Step 3: Find 2's complement of -9

Step 4: Result