Exercise 01

- Perform the conversions of the following numbers to binary: 144_{10}, 16_{H}, 1320_{8}
- Perform the conversions of the following numbers to hexadecimal: 178_{10}, 45_{8}, 111001111_{2}
- Perform the conversions of the following numbers to decimal: 11101_{2}, $1A_{H}$, 17_{8}

Exercise 02

Perform the following operations:

1. In binary: 0011 1110 + 0100 1111
2. In Hexadecimal: 7A + 17
3. In Octal: 15 + 46

Exercise 03

Perform the following operations:

1. In binary: 0011 1110 - 0100 1111
2. In Hexadecimal: A5 - 87
3. In Octal: 15 - 46

Exercise 04

Convert the following numbers to decimal, knowing that they are represented in 8 bits in two's complement (signed numbers): 7EH, ACH, 80H

Exercise 05

Perform the following addition operations in two's complement. Each number is represented in 8 bits in binary. Indicate if there is overflow for each operation:

1. 0011 1110 - 0100 1111
2. 1010 0101 - 1000 0111
3. 0000 1101 - 0010 0110