Homework 2 - Convertions and bitwise exercises

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Tags	Embedded software

▼ **Bitwise Exercises**

- 4 & 7 = 0100 & 0111 = 0100 → 4
- 16 | 7 = 10000 | 00111 = 10111 → 23
- 2 & (~13) = 00010 & (~01101 → 10010) = 00010 = 2
- 5 ^ 8 = 0101 ^1000 = 1101 = 13 → D
- 7 >> 2 = 0111 >> 0010 = 000111 = 1
- 84 >> 4 = 1010100 >> 0000100 = 000100101 = 5
- 15 << 5 = 1111 << 0101 = 10100000 = 480
- 4 & (2 << 3) = 00011000 = 0100 & 00011000 = 0
- 2 | (19 >> 1) = 10011 = 11
- 0xFF & (0x13 << 0x2) = 01001100 = 0x4C = 76

▼ **Convertions**

- **Convert to hexadecimal**
- 1011 1100 —> 0xBC
- 1000 0001 1100 —> 0x81C
- 1000 0011 0011 1111 1010 —> 0x833FA
- 1111 1010 0001 —> 0xFA1
- 1111 1111 1111 1111 1101 1110 —> 0xFFFFDE
- **Convert to binary**
- 84 —> 1000 0100
- 0xFC15 —> 1111 1100 0001 0101

- 0x5487DA —> 0101 0100 1000 0111 1101 1010
- 298 —> 0010 1001 1000
- 0xA15CB4 —> 1010 0001 0101 1100 1011 0100