

Week 1 Exercises

- Q1:** Turn 1111 (binary) into decimal number.
- Q2:** Turn 29 (decimal) into binary number.
- Q3:** Write down the truth tables for AND, OR and XOR gates.
- Q4:** What makes RAM Random? Why we do we call it that?
- Q5:** What does it mean when there is 0x in front of a string?
- Q6:** What is the difference between 32-bit and 64-bit processors?
- Q7:** What is a CPU cache and what is it used for?
- Q8:** Which data compression technique can be used for images and media?
- Q9:** Write down the odd parity bits for the examples: 00000111, 00010111, 00000000, 11111100
- Q10:** What is the difference between checksum and parity bit?