

CS4012 - Tutorial 2

Material covered by this tutorial

- Review of numerical representation
- Conversion between different numerical representations

Questions

1. Why do computers use binary as their native representation?)
2. Why are Hex and Octal used as well as binary?
3. Why does a binary file look strange when displayed in a text editor?
4. What is the difference between a text file and a binary file?
5. Perform each of the following conversions.
 - 11011_2 to decimal and to hex
 - $AB3E_{16}$ to decimal and octal
 - 841_{10} to binary and hex
 - 777_8 to binary, decimal and hex