The purpose of this project was to develop four related types of non-industry standard encryption: byte, character, layered byte, and layered character. The project involved thinking through possible approaches and algorithms, writing, improving, modifying, and debugging code. The program uses a bitwise XOR for byte encryption, a substitution cipher for character encryption, and loops for the layered ones. The code follows a small method structure, trying to avoid monolithic blocks of code. The program can handle Rich Text Format files (rtf), preserve formatting, work in any locale, and handle any human language and most binary data.