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In this workshop, I have learned:

1. Binary file operations – read and write characters to/from a file in binary mode:

READ:

std::fstream f(file, std::ios::in | std::ios::binary);

WRITE:

std::fstream f(file, std::ios::out | std::ios::binary | std::ios::trunc);

2. Binding a function to its arguments – bind a function to arguments using std::bind:

auto fn = std::bind(converter, text, key, nbytes, Cryptor());

3. Multi-threading – process data with 2 threads:

auto fn = std::bind(converter, text, key, nbytes, Cryptor());

std::thread t1(fn);

std::thread t2(fn);

t1.join();

t2.join();

encoded = !encoded;