XOR Encryption - The encryption logic is now correctly implemented using the XOR operator. Each character of the source string is XORed with the corresponding character from the key. The key length is accounted for by using the modulo operation to wrap around the key when necessary.

Reading File - The read\_file function opens the file, reads its content using a stringstream, and returns the file's contents as a string. If the file cannot be opened, an error is printed to the console.

Saving File - The save\_data\_file function writes the student name, the current date, the key, and the data to the specified file. It handles file writing using standard C++ file output operations and creates the required format by writing each component on a new line.

A screenshot of a computer

Description automatically generated