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#include <iostream>
#include <fstream>
#include <string>
using namespace std;

// Function to encrypt/decrypt text using XOR with a key
string xorCipher(string text, string key) {
    string result = text;
    for (int i = 0; i < text.length(); i++) {
        result[i] = text[i] ^ key[i % key.length()];
    }
    return result;
}

int main() {
    string filename, text = "";
    string key = "secret"; // Encryption key (can be changed)

    // Ask user for the input file name
    cout << "Enter the file name (with extension, e.g., input.txt): ";
    cin >> filename;

    // Read text from the file
    ifstream inputFile(filename);
    if (inputFile.is_open()) {
        string line;
        while (getline(inputFile, line)) {

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        text += line + "\n";
    }
    inputFile.close();
}
else {
    cout << "Unable to open file!" << endl;
    return 1;
}

// Encrypt the text
string encryptedText = xorCipher(text, key);
cout << "\nEncrypted text:\n" << encryptedText << endl;

// Save encrypted text to a file
ofstream encryptedFile("encrypted.txt", ios::binary);
if (encryptedFile.is_open()) {
    encryptedFile << encryptedText;
    encryptedFile.close();
    cout << "Encrypted text saved to encrypted.txt" << endl;
}

// Decrypt the text
string decryptedText = xorCipher(encryptedText, key);
cout << "\nDecrypted text:\n" << decryptedText << endl;

// Save decrypted text to a file
ofstream decryptedFile("decrypted.txt");

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if (decryptedFile.is_open()) {  
    decryptedFile << decryptedText;  
    decryptedFile.close();  
    cout << "Decrypted text saved to decrypted.txt" << endl;  
}  
  
return 0;  
}
```