**CS609 Assignment #1 Fall 2023**

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**Program Code:**

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#include <iostream>

#include <windows.h>

using namespace std;

int main() {

HANDLE outputFile = CreateFile("Studentinfo.doc", GENERIC\_WRITE | GENERIC\_READ, 0, NULL, CREATE\_ALWAYS, FILE\_ATTRIBUTE\_NORMAL, NULL);

if (outputFile == INVALID\_HANDLE\_VALUE) {

cerr<< "Failed to create file. Error code: " <<GetLastError() <<endl;

return 1;

}

string studentName, studentID;

cout<< "Enter your name: ";

getline(cin, studentName);

cout<< "Enter your student ID: ";

getline(cin, studentID);

string data = "Student Name: " + studentName + "\nStudent ID: " + studentID;

DWORD bytesWritten;

if (!WriteFile(outputFile, data.c\_str(), data.size(), &bytesWritten, NULL)) {

cerr << "Failed to write. Error code: " <<GetLastError() <<endl;

CloseHandle(outputFile);

return 1;

}

cout<< "Data written to the file successfully." <<endl;

SetFilePointer(outputFile, 0, NULL, FILE\_BEGIN);

char buffer[1024];

DWORD bytesRead;

if (ReadFile(outputFile, buffer, sizeof(buffer), &bytesRead, NULL)) {

cout<< "File Content: " <<endl;

cout.write(buffer, bytesRead);

} else {

cerr<< "Failed to read the file. Error code: " <<GetLastError() <<endl;

}

CloseHandle(outputFile);

return 0;

}