CS609 — System Programming

Assignment No. 1 — Fall 2026 | Sample Solution

```
// CS609_Assignment1_TextFileAnalyzer
#include <windows.h>
#include <stdio.h>
#include <string.h>

int main()
{
    char filePath[MAX_PATH];

    printf("Enter the path of the text file: ");
    fgets(filePath, MAX_PATH, stdin);

    size_t len = strlen(filePath);
    if (len > 0 && filePath[len - 1] == '\n')
        filePath[len - 1] = '\0';

    HANDLE hFile = CreateFile(filePath, GENERIC_READ,
                              0, NULL, OPEN_EXISTING,
                              FILE_ATTRIBUTE_NORMAL, NULL);

    if (hFile == INVALID_HANDLE_VALUE)
    {
        printf("Error: Could not open the file.\n");
        printf("Please check the path and try again.\n");
        return 1;
    }

    char buffer[1024];
    DWORD bytesRead;
    DWORD totalBytes = 0;
    BOOL result;

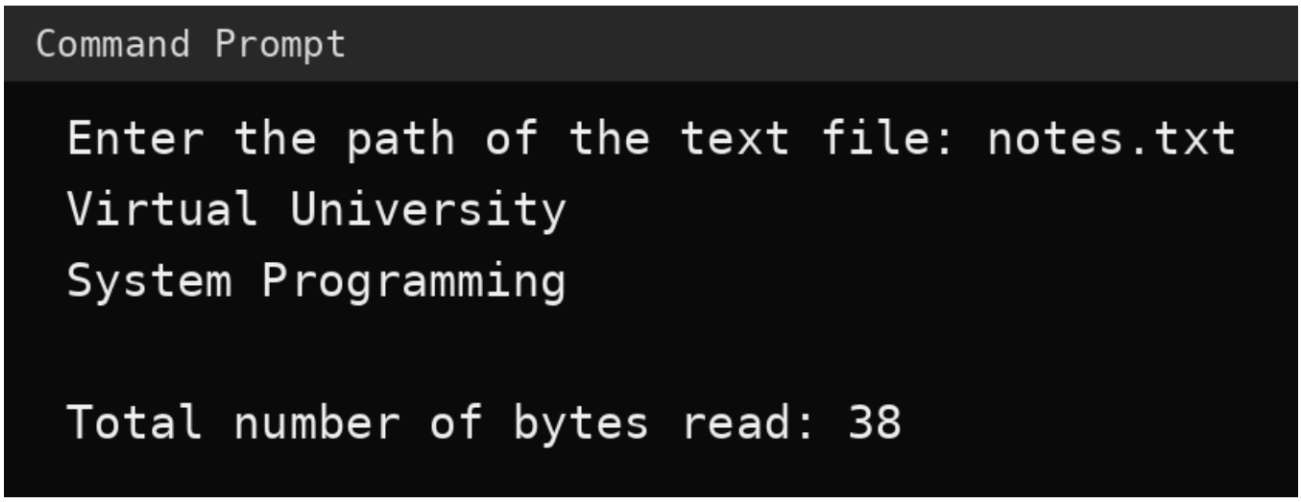
    do
    {
        result = ReadFile(hFile, buffer,
                          sizeof(buffer) - 1,
                          &bytesRead, NULL);
        if (bytesRead > 0)
        {
            buffer[bytesRead] = '\0';
            printf("%s", buffer);
            totalBytes += bytesRead;
        }
    } while (result && bytesRead > 0);

    printf("\nTotal number of bytes read: %lu\n",
           (unsigned long) totalBytes);

    CloseHandle(hFile);
```

```
    return 0;
}
```

Output


Command Prompt
Enter the path of the text file: notes.txt
Virtual University
System Programming
Total number of bytes read: 38

VU LEARNING HUB

CS609 Assignment 1 Solution

Fall 2026

📢 Join our official WhatsApp Channel for instant VU updates, past papers & assignment solutions!

➡ **https://whatsapp.com/channel/0029VbDOzXMC6ZvZBUbW8k2n**

💬 Questions? Chat with us on WhatsApp for quick help & guidance!

➡ **https://wa.me/923135320064**

🌐 Visit our website for more past papers, notes & assignment solutions!

➡ **https://vulearninghub.xyz**