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|  | **Fall 2023**  **CS609: System Programming**  **Assignment No. 01** | | **Total Marks: 20**  **Due Date: Nov 13, 2023** |
| **Instructions:**  Please read the following instructions carefully before submitting an assignment. It should be clear that your assignment will not get any credit if:   * The submitted assignment does not open or the file is corrupt. * You have not followed all steps described in question. * Assignment is **copied** (partial or full) from any source (websites, forums, students, etc.) strict action will be taken in this regard.   **NOTE:**  **You must upload only a SINGLE Word document (.doc or .docx). There is NO need to attach a screenshot. If you provide screenshots, it will not carry any additional marks.**  **Objectives:**  The objective of this assignment is to provide hands-on experience of System Programming concepts including:   * + Opening and handling text files   + Basic understanding of Windows file creation and manipulation APIs   + Understanding System error and its reporting for user | | | |
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| **Question: (20 marks)**  Write a C/C++ program that allow users to create a new file using the **CreateFile()** function. The name of the file should be **“Studentinfo”** and it should be a ".doc**”** file. The user can input their name i.e., **“ABC”** and roll number i.e., **“XYZ”**, which will be written to the file using the **WriteFile()** function. Additionally, the program can read and display the content of an existing file using the **ReadFile()** function.  **Hints:**   1. Include <**iostream** > and **<windows.h>**header files in your program. 2. Use the **GetLastError()** API to get the error where required.   **NOTE:**   * Question requires complete program. * You should write your name and roll number. You will be awarded zero marks if the mentioned name and roll number is not yours. * Your solution should be a single Microsoft Word file (doc or docx). File in any other format will be awarded zero marks.   **---BEST OF LUCK---** | | | |