Lab - 9

Introduction to Programming (ID110) Date: February 8, 2025
Topics: File Handling

Time: 1.5 Hr CSE'24, Semester - I Max marks: 10

Instructions:

- The lab session consists of two programming questions, and both are mandatory.
- External materials (e.g., notes, books) and electronic devices (e.g., mobile phones, smart watch, bluetooth) are **strictly prohibited**. Only a **blank sheet of paper** and a **pen** may be used for rough work.
- Internet usage is not allowed under any circumstances. Any violations will lead to serious academic consequences, including potential disqualification from the lab.
- Any form of plagiarism or academic dishonesty will be treated with the utmost seriousness and may result in severe penalties, including a zero for the lab or further disciplinary actions.
- Code must be written from scratch during the session. Pre-written code snippets or solutions will not be accepted. Use meaningful variable names and add appropriate comments where necessary.
- Upon completion, two code files named after roll no. (e.g., "CS24B1001-Lab9-p1.c" and "CS24B1001-Lab9-p2.c") must be submitted on Google Classroom. Not following the naming convention will lead to minus marking. The submission will only be accepted if done in the presence of TA.
- 1. Help your friend Abhay who decodes the binary value by noting down in notes and converting the information in strings. so, help him to print the binary values in a string using a text file which we will provide you.

(Use binary to string function to convert the values otherwise you'll lose 2 marks)

Input Format:

· A .txt file

Output Format:

Binary values converted into strings.

	Examples:		
	■ Input:	testcase1.txt file	
	Output:	Hello Friends.	
	■ Input:	testcase2.txt file	
	Output:	Output will be provided in the exam hall.	
2.	 There is a friend of mine, Manikanta, a B.P.C Faculty, who is trying to note down students' information of his class, now write a C program to help him to store the students info in the word file(students.txt). The Columns are Student Id, Student Name, Student Roll No, Student Branch. (+2 Marks Bonus)also write a function so that using the student name then press(f) to find index number, Using the student roll no then press(r) to find index number same as using the student Id then press(i) to find index number and finally for exit this loop press(e). 		
	[Note: the bonus will be added with 3 marks r	not with 5 marks].	
	Input Format:		
	 enter a integer n which represents the no of students enter the data first an integer of student id. secondly the string where you can store name thirdly an integer to store the student roll number 		
	finally the string which contains branchOutput Format:		
	 The output should store the values in a Enter a character to find the studen 	txt file. t in the txt file whether the student is present	
	as given information.		
Examples:			
	· ■ Input:		

Enter the number of students: 3

Student ID: 101 Student Name: Alice Johnson Roll No: 201 Branch: CS Enter details for Student 2: Student ID: 102 Student Name: Bob Smith Roll No: 202 Branch: IT Enter details for Student 3: Student ID: 103 Student Name: Charlie Brown Roll No: 203 Branch: EE S.No, Student ID, Student Name, Roll No, Branch 1, 101, Alice Johnson, 201, CS 2, 102, Bob Smith, 202, IT 3, 103, Charlie Brown, 203, EE Data successfully entered. Enter Student Name: Alice Johnson Student found at index: 1. Enter Student Name: David Miller Student not found! Enter Roll No: 202 Student found at index: 2. Enter Student ID: 103 Student found at index: 3. Enter Student ID: 500 Student not found! Х Invalid choice! Please try again.

Enter details for Student 1:

Output:

All the Best!