

✓ Done

Opened: Monday, 9 October 2023, 12:00 AM

Due: Monday, 16 October 2023, 12:00 AM

L1 Activities

Problem 1: Write a C program which inputs a file as a command-line arguments and detects whether the file is JPEG or not.
Approach:
1. We will give an image as a command line argument while executing the code.
2. Read the first three bytes of the given image(file).
3. After reading the file bytes, compare it with the condition for JPEG file i.e., if the first, second, and third byte of the given file is 0xff, 0xd8, and 0xff respectively then the given file is JPEG file.
4. Else it is not a JPEG File.

Problem 2: Given a text file(gfg.txt), our task is to convert all the lowercase characters of the file into uppercase.
Example
Input: (content inside file test.txt)
An extensive classroom programme by GEA to build and enhance Programming in C concepts
Output: (content inside file test.txt)
AN EXTENSIVE CLASSROOM PROGRAMME BY GEA TO BUILD AND ENHANCE PROGRAMMING IN C CONCEPTS
Approach
1. Open the file test.txt in write mode.
2. Check if there is any error in opening or locating a file.
3. If yes, then throw an error message.
4. If no, write the contents of the reference string into the file and rewind the file pointer.
5. Now, with the help of a while loop, convert all the characters of that file into the upper case using toupper() function and store them in a temporary buffer.
6. Print the temporary buffer into the test.txt file.
7. Close the file using fclose() function by passing the file pointer in it. ?

Problem 3: Write a C Program to merge contents of two files into a third file
Approach
Let the given two files be file1.txt and file2.txt. The following are steps to merge.
1) Open file1.txt and file2.txt in read mode.
2) Open file3.txt in write mode.
3) Run a loop to one by one copy characters of file1.txt to file3.txt.
4) Run a loop to one by one copy characters of file2.txt to file3.txt.
5) Close all files.
To successfully run the program file1.txt and file2.txt must exist in same folder.

Problem 4: Given a text file in a directory, the task is to print all the odd line content of the file first then print all the even line content.
Example:
Input: file1.txt:
Welcome
to
GEA-LTTS
Output:

Odd line contents:

Welcome

GEA-LTTS

Even line contents:

to

Approach:

1. Open the file in a+ mode.
2. Insert a new line at the end of the file, so that the output doesn't get effected.
3. Print odd lines of the file by keeping a check, that doesn't print even lines of the file.
4. Rewind the file pointer.
5. Reinitialize check.
6. Print even lines of the file by keeping a check, that doesn't print odd lines of the file.

Problem 5: Write a C Program to count the Number of Characters in a File

Approach

1. The characters can be counted easily by reading the characters in the file using getc() method.
2. For each character read from the file, increment the counter by one.
3. Make a text (.txt) file on your system and give its path to run this program on your system.

Edit submission

Remove submission

Submission status

Submission status	Submitted for grading
Grading status	Not graded
Time remaining	Assignment was submitted 6 days 2 hours early
Last modified	Monday, 9 October 2023, 9:56 PM
File submissions	<div><div><div><div></div><div></div><div>L1 Activities</div></div><div><div><div><div></div><div></div><div>L1P1.c</div></div><div><div><div></div><div></div><div>L1P2.c</div></div><div><div><div></div><div></div><div>L1P3.c</div></div><div><div><div></div><div></div><div>L1P4.c</div></div><div><div><div></div><div></div><div>L1P5.c</div></div></div><div><div>9 October 2023, 9:56 PM</div><div>9 October 2023, 4:01 PM</div><div>9 October 2023, 4:01 PM</div><div>9 October 2023, 5:36 PM</div><div>9 October 2023, 5:36 PM</div></div></div></div></div></div></div></div></div>
Submission comments	▶ Comments (0)