

File Handling

Q1. How to create a file in C?

- **Objective**: Understand how to create a file in C and write to it using fopen().
- **Explanation**: To create a file in C, you use the fopen() function with the mode will (write). If the file does not exist, it will be created.

Q2. Program to create a new text file and write "Coding Age" into it.

Objective: Write a program that creates a text file and writes the string "Coding Age" to it.

Expected Output:

Coding Age

Instructions:

- 1. Open a file named newfile.txt in write mode ("w").
- 2. Write "Coding Age" into the file.
- 3. Print "Coding Age" to the console after successfully writing to the file.

Q3. Program to read the contents of a text file and display them on the console.

Objective: Write a program that reads from a file and displays its content on the console.

Input:

A file named

input.txt with the content:

This is a test file.

It contains some text.

Expected Output:

This is a test file.

It contains some text.

Instructions:

- 1. Open the file input.txt in read mode ("r").
- 2. Read and display the file contents to the console.

Class Work

Q1. Program to create a new text file named output.txt and write the string "Coding Age" into it.

Objective: Create a new file and write a string to it.

Expected Output:

The program should display the message "Coding Age" on the console after s uccessfully writing to the file.

Instructions:

- 1. Create and write to the output.txt file.
- 2. Display "Coding Age" on the console after successfully writing the content.
- Q2. Program to read the contents of a text file and display them on the console.

Objective: Read and display file content from input.txt.

Input:

A file named

input.txt with the content:

This is a test file.

It contains some text.

Expected Output:

This is a test file.

It contains some text.

Q3. Program to count the number of characters, words, and lines in a text file.

Objective: Create a program that counts and displays the number of characters, words, and lines in a file.

Input:

A file named

input.txt with the content:

This is a test file.

It contains some text.

Expected Output:

Characters: 38

Words: 7 Lines: 2

Q4. Program to append text "C is fun!" to an existing file without overwriting its content.

Objective: Learn to append content to an existing file.

Input:

A file named

output.txt with the content:

Coding Age

Expected Output:

After running the program, the content of

output.txt will be:

Coding Age

C is fun!

Home Work

Q1. Program to read a file line by line using fgets() and display each line.

Input:

A file named

input.txt with the content:

This is line 1.

This is line 2.

Expected Output:

This is line 1.

This is line 2.

Q2. Program to copy the contents of one text file to another.

Input:

A file named

input.txt with the content:

Copy this content.

Expected Output:

A file named

output.txt with the content:

Copy this content.

Q3. Program to merge the contents of two files into a third file.

Input:

• file1.txt: Hello from file 1.

• file2.txt: Hello from file 2.

Expected Output:

A file named

merged.txt with the content:

Hello from file 1.

Hello from file 2.

- - - Student Management System - - -

System Features

- 1. Add a New Student: Add a new student record to the file.
- 2. View All Students: Display a list of all students and their details.
- 3. Search a Student: Search for a student using their unique ID.
- 4. **Update Student Details**: Modify a student's information.
- 5. **Delete Student**: Delete a student record from the system using their ID.
- 6. **Mark Enrollment Status**: Change a student's enrollment status to "enrolled" or "withdrawn."

Menu Options

- 1. Add Student: Save new student records into the file.
- 2. **View Students**: Display all stored student records.
- 3. Search Student by ID: Find a specific student record by their unique ID.
- 4. **Update Student Details**: Modify an existing student's information.
- 5. **Update Enrollment Status**: Mark a student as "enrolled" or "withdrawn."
- 6. **Exit**: Close the program.