

**SSN COLLEGE OF ENGINEERING (Autonomous)**  
**(Affiliated to Anna University, Chennai)**  
**DEPARTMENT OF CSE**

**UCS 1211 PROGRAMMING IN C LABORATORY**  
**A7: File Handling in C**

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Learning Outcome :

To be proficient in using Files in C by

- a) Opening a file in the required mode and closing the file
- b) Storage and retrieval of data in files
- c) Manipulating data in files

Write the algorithm to solve the following problems and implement them in C. Solving all the problems is mandatory.

1. Write a program which accepts two file names as **command line arguments**, file1 and file2. Copy the contents of file1 to file2. If file1 already exists copy the contents to file2 otherwise display as no such file. If file2 already exists, ask the user whether to overwrite the existing contents or to append the contents and do accordingly.
2. Write an interactive C program to maintain a list of names, addresses and telephone numbers. Store the information as records in a file and represent each record as a structure. Perform the following operations:
  - i) Add a new record at the end of file
  - ii) Modify an existing record
  - iii) Retrieve and display an entire record for a given name
  - iv) List all names with their addresses and telephone numbers.

**Note: Use *fscanf* and *fprintf* functions for reading and writing to the file.**

3. Modify 2 by using *fread* and *fwrite* functions for reading and writing. Perform the following operations:
  - i) Insert a new record in  $m^{th}$  position
  - ii) Delete a record based upon the given name
  - iii) Display  $n^{th}$  record

**Hint: Existing records should not get affected during insertion and deletion operation. Use *fseek* function**