

# Writeup - 2

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## **Description :**

The code implements a simple rudimentary text editor in C. It is meant to read the contents of a particular file and then whatever the user inputs, it writes them byte-by-byte into the same file. Leading to auto-save feature, so that no content is lost ever.

As advisory lock is to be put on a file using C. '**flock()**' is used to put an advisory lock on the file. Now, it takes 2 parameters.

**Int fd** - which is nothing but a file descriptor for the file that is to be opened.

**Int operation** - which can take only any of the 3 following flags:

- LOCK\_EX - which is an exclusive lock on the file, only one process can put a lock at a time.
- LOCK\_SH - which puts a shared advisory lock on the file, meaning multiple processes can put a lock on the same file at the same time.
- LOCK\_UN - removes the lock from the file.

This code uses LOCK\_EX and LOCK\_NB.

- LOCK\_NB - is nothing but putting a non-blocking lock on the file. If the lock is exclusive then an error status is returned which helps us encounter the warning.
  - If the status returned by **flock()** is '**EWOULDLOCK**', this means that there is already a lock on that particular file.