

# Advisory File Locks

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## A logical explanation of the code

It saves the current input attributes of the terminal of stdin and then sets them using the desired flags. It opens a file and appends it using memory buffer. It checks and puts advisory locks using lockf.

## Implementation details of the code

1. fopen is used to open get a file pointer specified by the string value given.
2. Fileno is used to get file descriptor from the file pointer.
3. Lockf has uses that depend on the argument given
  - a. FT\_LOCK is used to obtain a lock in a non-blocking manner.
  - b. F\_ULOCK is used to obtain unlock in a non-blocking manner.
4. Tcgetattr is used to obtain the current attributes of stdin and save them to old attr
5. Tcsetattr is used to set the attributes of the terminal with desired flags
6. Fread reads the file character by character and loads them in the memory buffer
7. Fputs writes the file using file pointer and memory buffer

## Errors handled

1. File locking
2. File unlocking