

TextEditor:

The text editor is a simple C program that opens and prints the contents of the file on the console. We can append more data to the ends of the file and save it. The C code simply opens the file and writes content using file pointers.

Advisory Locks:

The advisory locks are implemented by **fcntl()** function. The **fcntl()** takes file descriptor, (**F_GETLK/F_SETLK**), and a pointer to the flock structure. The **F_GETLK** returns the state of the lock & **F_SETLK** locks/unlocks the lock. The flock structure consists of the field called **l_type** which holds the state of the lock. This can be of 3 types:

- a) **F_RDLCK**(read only or advisory lock)
- b) **F_WRLCK**(exclusive or write lock)
- c) **F_UNLCK**(unlocked lock)

In case the advisory lock is already taken(found via F_GETLK) we print out the warning.

Advisory lock warning when two programs try to open the file:

```
Warning!File in Use
-
-
-
-
-
-
-
-
-
```

Error Handling:

- Errors are handled when wrong addresses are given
- In case the `fcntl()` throws an error the value of `errno` is seen and printed