ISP ASSIGNMENT – 2.3

The mistakes and the vulnerabilities that I made in my reference monitor in assignment 2.1 are that in earlier version of the code could manage the test case's basic open and close statements a few times, but the new code for assignment 2.3 version can handle this in every circumstance.

Also, the undo function in old code did not function as required, After trying for multiple attempts I had observed that instantly the undo is calling immediately after executing the writeat function so after running the outcomes should be empty but they are not what was anticipated. Multiple calls to undo after numerous writes do not erase correctly written data. which indicates that only the relevant portions of the data are deleted. The code has been updated to handle this case

The main mistake is that not determining the file is open prior to the writing or changing the information. So, I had set up a variable to verify the file status at starting only. The writeat function's permanent storage of all data created with it made prior code vulnerable. That is in the previous code I had written all the data directly into a permanent file, but now I've created variable where the recently written data is kept first before being permanently stored in the file. I had didn't check to see if the offset value was negative before writing the data in the writeat or whether the file is opened or not.

Also, from observing the others reference monitors and running them made me to know the vulnerabilities in my code which I changed in my new reference monitor for the assignment-2.3. Also, in the old code I didn't get any ideas of using variables in few cases by seeing the codes from others I came to understand to use the variables in the new code.

These are the mistakes I had done in my previous reference monitor and fixed them to make my code more strong for the assignment 2.3