

## **Rationale Behind the vulnerabilities**

**To update my reference monitor, I did the following things:**

- 1) Data Integrity Handling: I implemented mechanism to automatically write pending data to the file before closing it which helps us to address the data integrity vulnerability.
- 2) Robust Error Handling: To handle failed writes or read operations.
- 3) End of file error is also handled in my updated code.
- 4) Negative offset error is also taken care of.