Test Plan recording

1. **File reading test:**

- Verify that the program correctly reads the contents of an existing file.

- Check that the program correctly handles the case where the file does not exist.

2. **File write test:**

- Verify that the program writes correctly to an existing file.

- Verify that the program creates a new file if the file does not exist.

- Check that the program correctly handles write errors in the file.

3. **General testing:**

- Verify that the program runs without error and that read and write operations are performed correctly.

- Check that the program works with different types of files (eg large files, empty files, files with special characters).

4. **Performance test:**

- Verify that the program can handle large files efficiently.

- Check that the program does not consume too many system resources during execution.

5. **Safety testing:**

- Verify that the program is not writing sensitive or malicious data to a file.

- Verify that the program correctly handles security errors related to file permissions.