***RudiFS TEST CASES***

**>** *Tests are done with multiple clients ruquesting the server.*

**>** *A thread is used for each of the clients.*

***\*******Multiple clients opening the different files:***

*Test: This regulates the open file table to contain multiple inode entry. This has been tested for different opening & closing orders for files.*

*Result: Irrespective of the order of opening, open files were closed & respective entries are deleted.*

***\*******Multiple clients opening the same file:***

*Test: This regulates the open file table to contain multiple fd entry for each inode. This has been tested for different opening, closing orders for files & the inode entry deletion for the only one open file.*

***\*******Reading a non-opened file:***

*Result: Appropriate error message is displayed.*

***\*******Closing a non-opened file****:*

*Result: Appropriate error message is displayed.*

***\*******Multiple clients reading the same file****:*

*Test: Different clients read the file part by part, by giving read size.*

*Result: Each of the clients received their respective read request with correct reading.(exact content that is expected.) As each client has unique fd.*

***\*******Read size more than content****:*

*Test: Client requests with the read size, which is more than the available content of the file.*

*Result: Server returns with the available content & a message stating the total read (only available) size.*

***\*******Reading more than the file content****:*

*Test: Client after reaching end of the file, again sends a read request.*

*Result: A message stating the end of file is the result.*

***\*******Request after closing the connection****:(client side)*

*Test: Once an open file is closed, if one more request is made.*

*Result: A new connection to the server is established & the request is passed to the server.*

***\*******Request after closing the connection****:(server side)*

*Test: The server is not up, if a request is made.*

*Result: As no one is there to listen, the error message regarding the connection is displayed.*

***\*******List of files****:*

*Test: Client requests for the available files.*

*Result: Server responds with available file. (if export point is empty, then an error message is shown)*

***\*******Invalid read request****:*

*Test: Invalid read size provided.*

*Result: Invalid requests are filtered & error messages are shown.*

*The system is subjected to other minor tests.*