WriteFile.java

Functionality:

This function will perform the function of transmit the program input to the file, and will also put a timestamp on each of the inputs. This will ensure all the data write to the File with the same format.

Tests Performed:

public WriteFile(int index, String fileName, String myUserName, ArrayList userName, String groupName){..}

Constructor of this class takes all the input and start this class running.

Tests has been done using the RunLocalTest.java to ensure the class in constructed.

Tests has also been done with the program running, We have tested the class with variety of inputs and see if the file is write correctly.

public void Write() {..}

description: Method of writing a new line of chat information to the listFile.

Tests has also been done with the program running, We have tested the class with variety of inputs and see if the file is write correctly.

public String getTime () {..}

description: Method of acquiring the current time and put it as a time stamp format.

Tests has been done using the RunLocalTest.java to ensure the class in constructed.

Tests has also been done with the program running, We have tested the class with variety of inputs and see if the file is write correctly.

## ChatInfo.java

```bash

public class ChatInfo {..}

```

\*\*Functionality:\*\*

Take the input as a line of string, break the string in to separate parts and return the value.

\*\*Tests Performed:\*\*

Test been preformed with the RunLocalTest.java given the class a random line from the datafile and see it return the expected data.

```bash

public ChatInfo(String chatline){}

```

Constructor for the ChatInfo class. Takes the input of the line of String form the listFIle.txt

```bash

public int getIndex() {}

```

Description: Return the index of the chat

Tests: Tests has been done using the RunLocalTest.java to ensure the class in constructed.

Tests has also been done with the program running, We have tested the class with variety of inputs and see if the file is write correctly.

```bash

public ArrayList getChatUser() {}

```

Description: Return arrayList of users that are in the Chat

Tests: Tests has been done using the RunLocalTest.java to ensure the class in constructed.

Tests has also been done with the program running, We have tested the class with variety of inputs and see if the file is write correctly.

```bash

public String getTime() {

```

Description: Return timestamp as a String

Tests: Tests has been done using the RunLocalTest.java to ensure the class in constructed.

Tests has also been done with the program running, We have tested the class with variety of inputs and see if the file is write correctly.

## FindChat.java

```bash

public class FindChat {..}

```

\*\*Functionality:\*\*

This class perform multiple operations. First operation is to readthrough the File and find the ones that include myUserName and return the ArrayList. Second is to find the lastIndex so the program knows what to do if a new line is required. Thirdly it will find the index of that given the Chatname. Lastly it will delete the Chat from User’s interface.

\*\*Tests Performed:\*\*

Test been preformed with the RunLocalTest.java given the class a random line from the datafile and see it return the expected data.

```bash

public ArrayList<String> myChatList() throws IOException

```

This method will readthrough the File and find the ones that include myUserName and return the ArrayList.

```bash

public int lastIndex()

```

Description: find the lastIndex so the program knows what to do if a new line is required

Tests: Tests has been done using the RunLocalTest.java to ensure the class in constructed.

Tests has also been done with the program running, We have tested the class with variety of inputs and see if the file is write correctly.

```bash

public int findIndex(String chatname)

```

Description: find the index for the given chatname

Tests: Tests has been done using the RunLocalTest.java to ensure the class in constructed.

Tests has also been done with the program running, We have tested the class with variety of inputs and see if the file is write correctly.