**IT 114 Assignment 1**

**Aim**: You will create a small IRC like chat application in this lab.

**Description**: Your Chat application has a Chatroom with active few users. The users can broadcast messages to the Chatroom. If any user wants to know the chat history, the Chatroom provides a print of the chat logs.

**Help**: Some code will be pre-written to help you with the design of the application. You are supposed to think in Object Orient Programming paradigm to fill out the remaining code.

**Methods to implement:**

1.) printLog() // prints the chat logs to the console.

2.) receiveUserChat(String message) // Store the message sent by a user into a String array

3.) writeMessage() //The message generation part will be implemented, you have to figure out a way to broadcast the message to the ChatRoom.

**Notice the following:**

1.) You might have observed a consistent style in naming the variables and class names - variables begin with a lowercase and a complex variable name is camelCased. For a class, the names start in capital letters. They are conventions adopted by the java community.

2.) Also note comments beginning in 2 styles - /\*\* ... \*/, //. The former is used for javadoc creation. This is how the documentation for the Java API is generated.

3.) You will have seen public/private at various places. For now, assume a thumb rule to use public for all the classes and class methods, private otherwise.

**Lab Discussion**:

1.) What is the purpose of 'static' variable autoId in the User.java class?

2.) Understand the String data structure. How is this different from char Array in C?

**Submission Trivia**

1. You have to submit two files:
   1. Txt file containing the code (time: 2 hrs)
   2. IDE package folder – zipped (time: 1hr)
2. You are NOT allowed to open the IDE before the submission of the txt file.
3. All submissions should be made at [www.it114.spoj.com](http://www.it114.spoj.com) (complete details in class)
   1. Create an account in format: daiictID\_TA-ID
   2. ALL further assignments should be submitted using this account only.
   3. No off-class assignments will be accepted.