Source code Listing and Instructions to Compile using g++

Source code listing

```
#include <iostream>
#include <string>
                          // if user inputs yes for "Any more users?" then the while loop will continue until no is entered while (inputYesOrNo == "yes")
                                                           cout << "Enter user name> ";
cin >> inputUserName;
newMessage += "|<" + inputUserName;</pre>
                                                            cout << "Enter group name> ";
cin >> inputGroupName;
newMessage += "::" + inputGroupName + ">|";
                                                                                         // If message = $$ then the user is through entering input and the if-statement will not execute // This condition is important because we do not want to add "$$" to the message_buffer if (inputMessage != "$$") {
                                                            message_buffer = newMessage + message_buffer;
do{
                                                                                        inputMessage = "";
cout << "\nAny more users? > ";
getline(cin, inputYesOrNo);
cout << "\n";</pre>
                             // This while loop prints out the user names and their messages. As the code executes we remove the part of message_buffer // that we no longer need until we reach the end of the string. while (message_buffer.size() > 0)
                                                          first_char = message_buffer.find("|<");
message_buffer = message_buffer.substr(first_char + 2);
userName = message_buffer.substr(0, message_buffer.find("::"));</pre>
                                                            message_buffer = message_buffer.substr(message_buffer.find("::") + 2);
groupName = "(" + message_buffer.substr(0, message_buffer.find(">|")) + ")>>\n";
                                                           // Find either the next beginning of the next entry or ever
message = message_buffer.substr(0, message_buffer.find("\c"
message_buffer = message_buffer.substr(message.size() - 2);
```

Instructions to compile:

- 1) Change current directory to correct directory which contains the .cpp using command: "cd"
- 2) /* To compile:
 - a. type "g++ hw1.cpp -o hw1" in a terminal window to create hw1 executable file; re-executing this will update the hw1 file
 - b. type "g++ hw1.cpp" to create and update the a.out with the latest code
 - c. type "./a.out" or "./hw1" to run the program */