File I/O

- Besides the output in the console, our program produces 3 log files and stores them in 1 folder/directory named "log". The relative path to this directory from the package is "./src/assignment02PartB/log/". This run demonstrates how the log files work.

- Receipt-*-*.log: A log file to store the most important information from a chat session.
- StandardOut.log: A log file to store our program's standard output.
- StandardErr.log: A log file to store our program's error.

- Pages 1 to the top of page 3 is the same as Sample Output 01
- Pages 3 to 7 show examples of these log files.
- To see the content of these logs files automatically, please navigate to class Messenger then temporarily uncomment this line: LogFileDriver.run();

- *Your program's output must be <u>identical</u> except for the value of the timestamps, the student name, and the student email address. Please use your name and your email address.*
- *This document is in black and white for easy note-taking. The final output you submit must show colors, same as required in Sample Output 05.*
- *Please bring your questions to class.*

```
----------------------------------------------------------------------
-------------------- SF GIANTS THANK YOU --------------------------
----------------------------------------------------------------------
                                         powered by CSC 220 @ SFSU
Language: English
Time Zone: PST
----------------------------------------------------------------------
Language:                ENGLISH
Time Zone:               Pacific Standard Time in Day Light Saving
Color Sequences:         ANSI
Standard Output Log:     ./src/assignment02PartB/log/StandardOut.log
Standard Error Log:      ./src/assignment02PartB/log/StandardErr.log
Receipt Log:             ./src/assignment02PartB/log/Receipt-*-*.log
Default University:      San Francisco State University
Default Club:            San Francisco Giants
----------------------------------------------------------------------
2021/06/09 08:03:49 [0564 ms] AM PDT - Chat session started.

SF Giants: Welcome to the SAN FRANCISCO GIANTS!
----------------------------------------------------------------------
Club:                    San Francisco Giants
Short Name:              SF Giants
Established in:          1883
Colors:                  Orange, Black, Gold, Cream
Ballpark:                Oracle Park
World Series Titles:     8
NL Pennants:            23
Division Titles:         8
Wild Card Berths:        3
Owners:                  San Francisco Baseball Associates LLC
President:               Farhan Zaidi
General Manager:         Scott Harris
Manager:                 Gabe Kapler
----------------------------------------------------------------------

SF Giants: Your first name and last name, please: Duc Ta
```

```
SF Giants: Your school email address, please: dta@sfsu.edu
Duc Ta: Welcome to my university!
----------------------------------------------------------------------
Official Name:          San Francisco State University
Motto in Latin:         Experientia Docet
Motto in English:       Experience Teaches
Type:                   Public
Year of Establishment:  1899
Location:               San Francisco, California, United States
Address:                1600 Holloway Avenue, San Francisco, CA 94132
Colors:                 Purple, Gold
Nickname:               Gators
Mascot:                 Gator
Website:                www.sfsu.edu
----------------------------------------------------------------------

SF Giants: Thank you. We are connecting you with our player...
. . . . .
----------------------------------------------------------------------
Player:                 Buster Posey
Club:                   San Francisco Giants
Position:               Catcher
Number:                 28
Bats:                   Right
Throws:                 Right
MLB Debut:              2009
----------------------------------------------------------------------
. . . . .
Buster Posey, 28: Hello Duc. C-O-N-G-R-A-T-U-L-A-T-I-O-N-S!
Buster Posey, 28: SAN FRANCISCO STATE UNIVERSITY. Way to go!
Duc Ta: Thank you, Posey! Nice to e-meet you here.
Buster Posey, 28: Likewise, Duc. Very nice chatting w/ you.
Buster Posey, 28: How many SF Giants Thank You cards would you like to order?
Duc Ta: Three
Please enter an INTEGER. 3 tries left.
java.util.InputMismatchException  ⬅
Buster Posey, 28: How many SF Giants Thank You cards would you like to order?
Duc Ta: three
Please enter an INTEGER. 2 tries left.
java.util.InputMismatchException  ⬅
Buster Posey, 28: How many SF Giants Thank You cards would you like to order?
Duc Ta: An integer?
Please enter an INTEGER. 1 tries left.
java.util.InputMismatchException  ⬅
Buster Posey, 28: How many SF Giants Thank You cards would you like to order?
Duc Ta: 3
Buster Posey, 28: In 3 lines, please provide
    [1] Recipient name
    [2] Art symbol (a character)
    [3] Message to recipient
Buster Posey, 28: Card #1:
Duc Ta: [1] Mom
Duc Ta: [2] @
Duc Ta: [3] Thank you very much, Mom!
Buster Posey, 28: Card #2:
Duc Ta: [1] Dad
Duc Ta: [2] #
Duc Ta: [3] Thank you, Dad!
Buster Posey, 28: Card #3:
Duc Ta: [1] Friends
Duc Ta: [2] $
Duc Ta: [3] Yahoooo!!!!
Buster Posey, 28: Thanks, Duc. Please confirm your order:

SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                                         SF
SF       @@@@@@ @@                    @@                                        @@@@        SF
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```

```
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SF                                                      @@@                                  SF
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SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                                           SF
SF        Mom,                                                                               SF
SF                Thank you very much, Mom!                                                  SF
SF        Love,                                                                              SF
SF        Duc                                                                                SF
SF                                                                                           SF
SF                                        dta@sfsu.edu / Take Me out to the Ball Game        SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF


SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
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SF          ##   ## ##    #### ## ##   ## ##    ##   ## #### ## ##      ###       ##         SF
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SF                                                                                           SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                                           SF
SF        Dad,                                                                               SF
SF                Thank you, Dad!                                                            SF
SF        Love,                                                                              SF
SF        Duc                                                                                SF
SF                                                                                           SF
SF                                        dta@sfsu.edu / Take Me out to the Ball Game        SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF

SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
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SF                                                 $$$                                      SF
SF                                                                                           SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                                           SF
SF        Friends,                                                                           SF
SF                Yahoooo!!!!                                                                SF
SF        Love,                                                                              SF
SF        Duc                                                                                SF
SF                                                                                           SF
SF                                        dta@sfsu.edu / Take Me out to the Ball Game        SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
```

```
Duc Ta: Very nice! Thank you, Posey.
Buster Posey, 28: Thank you again, Duc. See you at your graduation ceremony!

SF Giants: *** FREE TICKETS to SF GIANTS Games *** _ 1 miss allowed _
SF Giants: Which type of class has 'protected' constructors?
Duc Ta: abstract
SF Giants: Correct!
SF Giants: What type of method did Java 8 add to 'interface'?
Duc Ta: default
SF Giants: Correct!
SF Giants: What new keyword did Java 13 add to 'switch' statement?
Duc Ta: yield
SF Giants: Correct!
SF Giants: In Java 15, what keyword pairs with 'sealed'?
Duc Ta: permits
SF Giants: Correct!
SF Giants: Giants in Spanish?
Duc Ta: Gigantes
SF Giants: Correct!
SF Giants: Take me out to the...?
Duc Ta: Ball Game
SF Giants: Correct!
*** Congrats! You won FREE TICKETS to SF GIANTS Games ***
2021/06/09 08:05:53 [0292 ms] AM PDT - Chat session ended.
. . .
--------------------------------------------------------------------------------
---------- LogFileDriver ----------
---------- checking log files ...
--------------------------------------------------------------------------------
```

```
. . . . .
********************************************************************************
********************************************************************************
*** Reading file:  Receipt-DUC-TA-DTA@SFSU.EDU.log
*** Relative path: ./src/assignment02PartB/log/Receipt-DUC-TA-DTA@SFSU.EDU.log
**
*
--------------------------------------------------------------------------
--------------------- SF GIANTS THANK YOU --------------------------
--------------------------------------------------------------------------
                                      powered by CSC 220 @ SFSU
2021/06/09 08:04:07 [0032 ms] AM PDT - Transaction started.

BUSTER POSEY, 28 | SAN FRANCISCO GIANTS
DUC TA, DTA@SFSU.EDU | SAN FRANCISCO STATE UNIVERSITY
3
--------------------------------------------------------------------------
Mom
@
Thank you very much, Mom!
--------------------------------------------------------------------------
Dad
#
Thank you, Dad!
--------------------------------------------------------------------------
Friends
$
Yahoooo!!!!
--------------------------------------------------------------------------
*** PASSED quiz. Got FREE TICKETS. ***

2021/06/09 08:05:53 [0239 ms] AM PDT - Transaction ended.
*
**
***
***
********************************************************************************
********************************************************************************
```

4

```
. . . . .
*************************************************************************
*************************************************************************
*** Reading file:  StandardErr.log
*** Relative path: ./src/assignment02PartB/log/StandardErr.log
**
*
java.util.InputMismatchException
java.util.InputMismatchException          ⬅
java.util.InputMismatchException
*
**
***
***

*************************************************************************
*************************************************************************
```

```
. . . . .
*************************************************************************
*************************************************************************
*** Reading file:  StandardOut.log
*** Relative path: ./src/assignment02PartB/log/StandardOut.log
**
*
-----------------------------------------------------------------------
--------------------- SF GIANTS THANK YOU --------------------------
-----------------------------------------------------------------------
                                  powered by CSC 220 @ SFSU
Language: Time Zone: --------------------------------------------------------------------
Language:               ENGLISH
Time Zone:              Pacific Standard Time in Day Light Saving
Color Sequences:        ANSI
Standard Output Log:    ./src/assignment02PartB/log/StandardOut.log
Standard Error Log:     ./src/assignment02PartB/log/StandardErr.log
Receipt Log:            ./src/assignment02PartB/log/Receipt-*-*.log
Default University:     San Francisco State University
Default Club:           San Francisco Giants
-----------------------------------------------------------------------
2021/06/09 08:03:49 [0564 ms] AM PDT - Chat session started.

SF Giants: Welcome to the SAN FRANCISCO GIANTS!
-----------------------------------------------------------------------
Club:                   San Francisco Giants
Short Name:             SF Giants
Established in:         1883
Colors:                 Orange, Black, Gold, Cream
Ballpark:               Oracle Park
World Series Titles:    8
NL Pennants:            23
Division Titles:        8
Wild Card Berths:       3
Owners:                 San Francisco Baseball Associates LLC
President:              Farhan Zaidi
General Manager:        Scott Harris
Manager:                Gabe Kapler
-----------------------------------------------------------------------

SF Giants: Your first name and last name, please: SF Giants: Your school email address, please: Duc
Ta: Welcome to my university!
-----------------------------------------------------------------------
Official Name:          San Francisco State University
Motto in Latin:         Experientia Docet
Motto in English:       Experience Teaches
Type:                   Public
Year of Establishment:  1899
Location:               San Francisco, California, United States
```

```
Address:                1600 Holloway Avenue, San Francisco, CA 94132
Colors:                 Purple, Gold
Nickname:               Gators
Mascot:                 Gator
Website:                www.sfsu.edu
----------------------------------------------------------------------

SF Giants: Thank you. We are connecting you with our player...
. . . . .
----------------------------------------------------------------------
Player:                 Buster Posey
Club:                   San Francisco Giants
Position:               Catcher
Number:                 28
Bats:                   Right
Throws:                 Right
MLB Debut:              2009
----------------------------------------------------------------------
. . . . .
Buster Posey, 28: Hello Duc. C-O-N-G-R-A-T-U-L-A-T-I-O-N-S!
Buster Posey, 28: SAN FRANCISCO STATE UNIVERSITY. Way to go!
Duc Ta: Buster Posey, 28: Likewise, Duc. Very nice chatting w/ you.
Buster Posey, 28: How many SF Giants Thank You cards would you like to order?
Duc Ta: Please enter an INTEGER. 3 tries left.
Buster Posey, 28: How many SF Giants Thank You cards would you like to order?
Duc Ta: Please enter an INTEGER. 2 tries left.
Buster Posey, 28: How many SF Giants Thank You cards would you like to order?
Duc Ta: Please enter an INTEGER. 1 tries left.
Buster Posey, 28: How many SF Giants Thank You cards would you like to order?
Duc Ta: Buster Posey, 28: In 3 lines, please provide
    [1] Recipient name
    [2] Art symbol (a character)
    [3] Message to recipient
Buster Posey, 28: Card #1:
Duc Ta: [1] Duc Ta: [2] Duc Ta: [3] Buster Posey, 28: Card #2:
Duc Ta: [1] Duc Ta: [2] Duc Ta: [3] Buster Posey, 28: Card #3:
Duc Ta: [1] Duc Ta: [2] Duc Ta: [3] Buster Posey, 28: Thanks, Duc. Please confirm your order:

SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                                        SF
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SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                                        SF
SF        Mom,                                                                            SF
SF               Thank you very much, Mom!                                                SF
SF        Love,                                                                           SF
SF        Duc                                                                             SF
SF                                                                                        SF
SF                                    dta@sfsu.edu / Take Me out to the Ball Game    SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF


SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                                        SF
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```

```
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SF                                              ##                              SF
SF                                             ###                              SF
SF                                                                              SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                              SF
SF      Dad,                                                                    SF
SF           Thank you, Dad!                                                    SF
SF      Love,                                                                   SF
SF      Duc                                                                     SF
SF                                                                              SF
SF                                      dta@sfsu.edu / Take Me out to the Ball Game    SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF


SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
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SF       $$  $$ $$   $$$$ $$  $$ $$$$   $$ $$ $$ $$ $$ $$  $$       $$      SF
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SF       $$  $$ $$  $$$$ $$  $$ $$  $$    $$$   $$$$  $$ $$        $$$$      SF
SF                                      $$                                  SF
SF                                     $$$                                  SF
SF                                                                              SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF
SF                                                                              SF
SF      Friends,                                                                SF
SF           Yahoooo!!!!                                                        SF
SF      Love,                                                                   SF
SF      Duc                                                                     SF
SF                                                                              SF
SF                                      dta@sfsu.edu / Take Me out to the Ball Game    SF
SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF GIANTS - - - - SF

Duc Ta: Buster Posey, 28: Thank you again, Duc. See you at your graduation ceremony!

SF Giants: *** FREE TICKETS to SF GIANTS Games *** _ 1 miss allowed _
SF Giants: Which type of class has 'protected' constructors?
Duc Ta: SF Giants: Correct!
SF Giants: What type of method did Java 8 add to 'interface'?
Duc Ta: SF Giants: Correct!
SF Giants: What new keyword did Java 13 add to 'switch' statement?
Duc Ta: SF Giants: Correct!
SF Giants: In Java 15, what keyword pairs with 'sealed'?
Duc Ta: SF Giants: Correct!
SF Giants: Giants in Spanish?
Duc Ta: SF Giants: Correct!
SF Giants: Take me out to the...?
Duc Ta: SF Giants: Correct!
*** Congrats! You won FREE TICKETS to SF GIANTS Games ***
2021/06/09 08:05:53 [0292 ms] AM PDT - Chat session ended.


*
**
***
***
********************************************************************************
********************************************************************************
```