Assignment

CSE 1710, Fall 2013 Prepared by: M. Baljko, Friday Nov 29, 2013

First, a caution…
To submit your solutions to this assignment, you will need to have copies of your solution files in your home directory on the EECS server, and you will need to invoke the `submit` *command in a SSH shell.* ***READ*** *the* ***submission instructions*** *before starting this task.*

Task #1 [/5] DUE: Tuesday, December 3rd, 11:00pm

Create a Java application called `App01` that fulfills the following requirements:

- Prompt the user to enter a valid time from the user. To be valid, the entered time has to be 2, 3, or 4 am or pm, with no space or any other characters between the digit and the am or pm designation.
  - Examples of valid times: `2am`, `2pm`, `3am`, `3pm`, `4am`, `4pm`
  - Examples of invalid times: `1am`, `5 pm`, `3:00am`, `3PM`, `4AM`, …
  - *Hint: See the example in section 6.4.2*
- If the user enters an invalid time, then provide friendly feedback and reprompt the user.
- When a valid time is entered, print it out the console in upper case. (use the `toUpperCase` method of `String`).

Submit the file `App01.java` as per the instructions on the next page.

Task #2a) [/5] DUE: Friday, December 6th, 11:00pm

Create a Java application called `App02` that fulfills the requirements as detailed in Check06B (pp. 255-256).
Please note: The exercise Check06B is written as though you are completing an eCheck exercise (which is a way of completing exercises with automated checking). You are completing the exercise as a stand-alone exercise.

Task #2b) [/5] DUE: Friday, December 6th, 11:00pm

Create a Java application called `App03` that fulfills the requirements as detailed in Exercise 6.14 (p. 253)

Task #2c) [/5] DUE: Friday, December 6th, 11:00pm

Create a Java application called `App04` that fulfills the requirements as detailed in Exercise 6.20 (p. 254)

Task #2d) [/5] DUE: Friday, December 6th, 11:00pm

Create a document that contains your written answers to the following questions:
Ch 6 Review Question (pp. 245-246): 1, 3, 5, 7, 15, 19, 21, 22, 28
Ch 6 Exercises (pp. 251-255): 6.4, 6.6, 6.7, 6.10
Generate a PDF file called `Answers.pdf` from your document.

Submit the files `App02.java, App03.java, App04.java` as per the instructions on the next page.

Submit the file `Answers.pdf` as per the instructions on the next page.

SUBMISSION INSTRUCTIONS

EMAILED SOLUTIONS ARE NOT ACCEPTED NO MATTER WHAT

Instructions to submit a file (for the purposes of these instructions, assume the file is called `App01.java`)

1. Ensure that a copy of the file `App01.java` in your **home directory** on the EECS server. You can put it in whichever subdirectory you wish.

2. Open a SSH client and navigate to the directory containing the file `App01.java`

3. Enter the following command:

   ```
   submit 1710 asst App01.java
   ```

4. When successful, you should receive the following feedback:
   ```
   submitted:  App01.java (… bytes)
   All files successfully submitted.
   ```

Where do I find the SSH Client?

- On the Windows machines in the lab in LAS1002, invoke the application PuTTY. Connect to `red.cse.yorku.ca`.
- On your personal machines, you can download a SSH client if you don't already have one. If you have a Windows machines, then you can use download and install PuTTY. If you are running Mac OS X, you the OpenSSH suite already included. You can open a Terminal window and use `scp` to copy your files to `red.cse.yorku.ca`. You can then use `ssh` to open a shell to `red.cse.yorku.ca` to invoke the submit command. If you prefer a graphical interface, you can download and install the app FUGU for transferring your files.

I am not familiar with Unix or SSH Clients - How should I proceed?

You should choose to complete your solution on a workstation in the lab, room LAS1002. In this case, it is easy to ensure that your file is saved on the `Z:` drive (which is where your home directory is mounted). PuTTY is already installed on the lab machines.

You may choose to complete your solution on your own personal machine and then to transfer the file over to your home directory on the EECS server. Some instructions are provided here. **BUT** if you are unable to follow the instructions and, as a result, do not submit your solution by the deadline, then your mark will be zero. **DO NOT** email the instructor saying *"I have completed the assignment but I can't submit it because <…insert whatever reason here…> and so I am emailing it to you"*. If you do, such submissions will not be accepted.

To manage the risk of receiving a mark of zero (e.g., you have completed the work but are not able to submit it), then either leave yourself ample time to troubleshoot potential problems, or just complete the solution on a lab machine.