SYST 17796

ICE 1

This exercise is to be completed individually during class time. Students are allowed to discuss the exercise and provide assistance to one another but each student is responsible for their own final product. Students not present in class are not eligible for credit unless they are eligible for a specific accommodation which is worked out between the instructor and that student according to class/departmental/college policies. Students should have registered their Git credentials with the instructor prior to beginning. **Keep in mind that this is a public repository and anything you commit will become part of the repository’s history and will be viewable by the public.**

# Overview

This Exercise will allow students to demonstrate that they can perform basic source code management tasks independently including cloning, editing, pulling, merging, committing and pushing code. The exercise will also test basic Java coding skills at the Java 1 level (review).

# Credit/Necessary Information

Credit is awarded based upon the matrix of tasks below. Some tasks may be graded during class time, at the professor’s discretion. Marks will be deducted for overwriting the master repository or otherwise mismanaging the code.

*When students edit another author’s code, they are expected to add themselves as a modifier in the class-level Javadoc and then add the date modified.*

**Repository url:** <https://github.com/sivagamasheridan/ICE1_Wednesday_22.git>

| Task |
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| 1. Clone the ICE 1 repository listed above to a NetBeans project |
| 1. Push the cloned code to your remote repository. |
| 1. In netbeans Create a new **local Branch** called FIRSTNAME\_LASTNAME\_ICE1 to complete the remainder of ICE 1. |
| 1. Complete the CardTrick class so that it models a “hand” of seven cards as an array (or other suitable data structure) which is filled with random cards (you will have to create a code that chooses random number values and random suits from the suits array, **this is started for you**) 2. \*\*\*Remember to add your name as a modifier and your student number in the header comment\*\*\* |
| 1. Make the CardTrick class then ask the user to pick a card (“any card”) and then search the array for the card, and report whether the user’s card is in the magic hand of random cards. There are no special points here for efficiency beyond a Java 1 level. This is something we can refactor! |
| 1. Push your new branch to the same remote repository and login to the remote on GitHub to check that your branch was pushed. (take screen shot repository browser) |
| 1. **Note that you should not push changes to the remote master repository, only to your (new) remote branch which you will push up to GitHub**. (take screen shot repository browser) |
| 1. Edit your branch code **from GitHub to add a (hard-coded) Card Object called luckyCard with a number and suit of your choosing.** |
| 1. Fetch the changes to your Local Repository and Safely merge the code into your branch (NetBeans project). Add your name and student id as comment in both files. |
| 1. Merge branch code with the master in netbeans. |
| 1. Once your code is merged with master push the master to your remote master. Delete branch in netbeans (take screenshot of repository browser) |
| 1. Submit screen shots and your repository url as word document in slate ICE1 dropbox. |
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