Object-oriented Programming Language (Java) Fall 2021 HOMEWORK #2 ©

This homework is Due in one week

- 1. Goal: Students will be needed to
 - Learn how to create a Java project with many class files in NetBeans/Eclipse IDE.
 - Learn how to use Java class/object, instance methods and static methods.
 - Learn how to perform object-oriented analysis and design for Card games.
 - (Optional) Write and debug the Big2 card game in Java with a main function to test its correctness in Eclipse IDE.
 - You need to follow the provided project and use those predefined classes.
- 2. OOAD: Big2 card game will contain the following classes.

(Hints: Rules of Big2 please check http://www.pagat.com/climbing/bigtwo.html.)

- Card class
 - Fields: rank and suit
 - Methods: setter & getter, toString method to show Card inf.
- Deck class:
 - Fields: Array of Cards.
 - Object methods: shuffle, deal
- (Optional) Player class (optional)
 - Class methods: findPairs(Card[] cards), findTriples, findQuads (four of a kind), findFlush, findFullHouses and findStraights, findStraightFlush.
- 3. (Optional) In Player class, implement findPairs(Card[] cards), findTriples, findQuads (four of a kind), findFlush.
 - You may need to use two dimension array to return pairs, triples, ...
- 4. (Optional) Bonus points: In Player class, implement findFullHouses and findStraights, findStraightFlush.
- 5. Upload and Hand in your homework assignment
 - Comment your code (20% off) & generate Java doc (20%)
 - Write a MS word report containing 1. Source code, 2. Outputs 3. Lessons learned and conclusion.
 - Zip your code, Java doc (html) and report to a zip file (i.e. I2B01_NAME_hw2.zip)
 - Upload the zip file to tronClass web under HW2.

Do your assignment as soon as possible. Don't wait till the last minute.