

CSCE111: Final Projects

Each team picks one project to do and should create an HTML file using Javadoc to describe the implementation. For Javadoc, please refer to the links below:

<https://www.oracle.com/technetwork/java/javase/documentation/index-137868.html>
<https://stackoverflow.com/questions/4468669/how-to-generate-javadoc-html-files-in-eclipse>

Project 1 — Calculator

Implement a calculator that achieves the following requirements:

1. provide a graphical interface which allow the users to input the expression to be calculated and show the result of the expression
2. support 5 basic arithmetic operators (+, -, *, /, %). Please pay attention to the operator precedence

Bonus: support parenthesis

Project 2 — Calendar

Implement a calendar that meets the following requirements:

1. allow the user to input any date and time as the starting point, e.g., 12/30/1997 (MM/DD/YYYY), 12:30:45 pm
2. after taking the user's input, the program shows the date and time correctly as the time passes
3. can correctly handle leap year. For example, if the user input 02/24/2004 11:59:59 pm, the next time should be shown is 02/25/2004 12:00:00 am

Project 3 — Simplified Texas Hold'em

Implement a simplified Texas Hold'em. Suppose all the cards (52 in total) have the same type. Rules are as follows:

1. it needs to create at least two players
2. each player is dealt two cards (randomly and each number should have the equal probability)
3. then five cards are dealt
4. each player selects five cards from the seven cards and makes the cards best
5. compare the cards of each player and decides the winner