# CS362, Software Engineering II

## Assignment 5

## Assignment 5 - The primary goal of this assignment is to learn how to debug a running program and write a bug report

1. **Github**

   a. Create and checkout a new Assignment-5 branch from **Master**.

   b. Have one of your teammates give you their Dominion code and put it in a separate folder within your project folder. The name of the folder should start with the ONID of the teammate whose code you are testing. For instance, if you chose to test robertwen/dominion, create the directory projects/yourONID/roberwenDominion/.

2. **Unit Tests**

   a. Add your tests from BOTH Assignment-3 and Assignment-4 to this directory and run your tests to test your teammate's code that you copied. Please note that you "may" need to change your tests to match the refactored code, depending on how your teammate refactored the code as far as method names, the parameter passed, etc. This will also help indicate how maintainable your tests are. (**25 points**)

   b. Find and report 4 bugs and document these **as formatted bug reports** in the Assignment-5.pdf file, under a section called **Bug Reports**. Describe in detail about the bugs; the cause, how you found them, etc. In case your teammate already fixed the bugs and you cannot find any, use the version they submitted for Assignment 2. (**25 points**)

3. **MakeFile**

   a. You can use your makefile to run the tests or you can run them one by one.

4. **Documentation**

   a. Document your experience testing your teammates code in a section called **Test Report**. Describe your experience in detail, including code coverage information, and include your view of the reliability of the Dominion code of your teammate. (**25 points**)

   b. Document the process of identifying the bugs in your teammates code and describe the code changes under a section called **Debugging**. Show how you used a debugger (e.g., GDB, Visual Studio, or another debugger tool) to understand and debug your teammates code. Submit screenshots of your debugging information, along with files or logs that you generate through the debugging process as part of your submission. (**25 points**)

**<u>Deliverables:</u>**

1. Push your Assignment-5 branch to github.  This branch must be created before the due date to receive credit.  This branch will contain your unit tests described in #2 above.
2. Upload your Assignment-5.pdf document to Canvas.  This document will contain three sections; **Bug Reports, Test Report, and Debugging**.
3. When you submit your PDF to Canvas, add a Comment in the Comments Box and provide the URL for your GitHub repository, **Assignment-5 branch.** <mark>(-10 points</mark> for missing it).