**Module Assignment Summary**

[Module Assignment Summary](https://faytechcc.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_33824_1&content_id=_5842751_1&mode=view)

**Assignments are due 8/30 unless otherwise listed.**

**Reading**

CH5 (Zybooks Chapter 5)

**Assignments**

M1T1 (Hello, Student) **(due 8/23 by 8am)**

M1LAB (GitHub Repository Setup)

M1HW (Rock, Paper, Scissors)

[**CH5**](https://faytechcc.blackboard.com/webapps/assignment/uploadAssignment?content_id=_5842755_1&course_id=_33824_1&group_id=&mode=view)

**CH5 - due 8/30**

**Instructions**

Complete assignment **CH5** in Zybooks. This will involve working with arrays and vectors.

Take a screenshot of your score on the assignment, and submit it here. (Please note that "Assignments" tab shows this information. The CH5 assignment does not require you to complete every section of the chapter, I've edited it down a bit.)

### [M1T1 - Orientation](https://faytechcc.blackboard.com/webapps/assignment/uploadAssignment?content_id=_5958813_1&course_id=_33824_1&group_id=&mode=view)

**This assignment is due by 8am Monday 8/23. Completing it by the due date is mandatory for continued enrollment in the class.**

In the past we've used the first mandatory assignment as a "getting to know you" post -- this is similar, but using C++.

**Instructions**

Using your choice of C++ development environment (Code::Blocks, repl.it, etc.), create a program that meets the following requirements.

The program should be named **M1T1\_Lastname.cpp**, with your own last name replacing "Lastname". (10 points)

The file should begin with the standard FTCC program header (10 points). Here's an example as a reminder.

// CSC 234  
// Assignment Name (M1T1 in this case)  
// Your Name  
// Date

Tthe program should print at least three lines of text ( using cout ) when run (70 points).

* Your first and last name
* What languages (including C++) you are currently studying this semester
* Any additional information about yourself you'd like to volunteer -- job, hobbies, interests, etc.

Finally, ZIP this file (10 points) into **M1T1\_Lastname.zip** (again, with your own name instead) and upload it here to complete this assignment.

### [M1LAB - GitHub Repository](https://faytechcc.blackboard.com/webapps/assignment/uploadAssignment?content_id=_5842756_1&course_id=_33824_1&group_id=&mode=view)

**M1LAB - GitHub Repository Setup**

As well as submitting your work to Blackboard for grading, youwill be storing your assignments in a dedicated GitHub repository to continue building your portfolio as a developer.

This video gives a solid explanation of creating a repository: <https://youtu.be/iv8rSLsi1xo> (opens in new window)

Instructions:

Either log into your existing GitHub account you've used for previous classes, or create a new GitHub account using your student email and with your student ID as your account name.

(I'm not particularly attached to GitHub as a company versus its various competitors -- but it's what we use in other classes, so it's easiest to stay consistent.)

Create a repository named **CSC234**, and be sure to choose the option to initialize the repository with a README.

Edit the file **README.md** to contain:

CSC 234

Your Name

Finally, copy and paste the URL to your repository and submit that URL as proof of completing the assignment.

Throughout the semester, you should upload your work to your CSC234 repo as well as submitting it here.

[**M1HW**](https://faytechcc.blackboard.com/webapps/assignment/uploadAssignment?content_id=_5842757_1&course_id=_33824_1&group_id=&mode=view)

**M1HW - Rock Paper Scissors**

This assignment should serve as a quick warmup, and a reminder that even a simple set of requirements can get complicated.

At times, I will pull from computer games of the 70s and 80s, especially text based games, for ideas for simple assignments and projects. As well as giving an interesting look back at the programming scene of that era, these are often just complicated enough to be a bit more challenging than you might expect.

In other words: If someone says "Hey, write a Rock, Paper, Scissors program", you might say "Sure, that'd take like five minutes." It's probably going to take you longer than that to do it right.

**Instructions and Grading**

**Bronze Tier** (max 80/100): Write a program that will play a single round of "Rock, Paper, Scissors" against a human player.

The user should make a selection (this could be by typing, say, "rock", or by choosing from a numbered menu).

The program should make a selection at random (searching Zybooks should point you to the relevant section from CSC134 that explains random number generation).

Based on the player and computer choices, a winner (or a tie) is announced.

As a reminder: Rock breaks scissors, scissors cut paper, paper covers rock.

**Silver Tier** (max 90/100): As Bronze, but the program should play a best of five series of RPS, and then announce the winner of the series. It should then ask the user if they want to play again.

**Gold Tier** (max 100/100): As Silver, but the program should instead play "Rock, Paper, Scissors, Lizard, Spock". This variant is attributed to Sam Kass and Karen Bryla.

I apologize in advance for the fact that a search for "Rock, Paper, Scissors, Lizard, Spock" is probably going to point you to a Big Bang Theory clip. (I only found this out after creating the assignment. I've seen maybe 10 seconds total of that show.)

Useful links for RPSLS: [https://dodona.ugent.be/en/activities/1647887074/#](https://dodona.ugent.be/en/activities/1647887074/) and <http://www.samkass.com/theories/RPSSL.html>

To quote:

The rules of rock-paper-scissors-lizard-Spock are:

* scissors cut paper
* paper covers rock
* rock crushes lizard
* lizard poisons Spock
* spock smashes scissors
* scissors decapitate lizard
* lizard eats paper
* paper disproves Spock
* Spock vaporizes rock
* rock crushes scissors

**Completing the Assignment**

Upload your source code and a screenshot of a sample run to Blackboard.