**Familiarity Review**

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**Coding Topic:** **Application Controller Pattern**

**Description of Understanding:** As we do know, ACP in this concept means Application Controller Pattern. This ensures that any program written is centralized and allows a flow of an application and screen navigation. When writing programs with different classes, the Application Controller Pattern comes in handy. This is because, one change in a particular class or location, get affected in other area of the code. See this as PHP in web development.

The controller is very important as it plays a huge role in ensuring the success of the program. The controller processes incoming requests, makes updates and then return the result to the view. The interface on the other hand is just like a Java class only that it has a static constants and abstract method. With this, you can implement multiple inheritance. So, in this simple program ACP, with the binary operators’ classes, the Application Control Pattern can pull data, make a logic or dynamic moves and then displays result based on users input or request.

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| **File** | **Git Link** |
| **Application Controller Pattern** | <https://github.com/nkenta/cit360/blob/master/acp/ACP.java> |
| **Addition.java** | <https://github.com/nkenta/cit360/blob/master/acp/Addition.java> |
| ****Controller.java**** | <https://github.com/nkenta/cit360/blob/master/acp/Controller.java> |
| ****Division.java**** | <https://github.com/nkenta/cit360/blob/master/acp/Division.java> |
| ****Interface.java**** | <https://github.com/nkenta/cit360/blob/master/acp/Interface.java> |
| ****Multiplication.java**** | <https://github.com/nkenta/cit360/blob/master/acp/Multiplication.java> |
| ****Subtraction.java**** | <https://github.com/nkenta/cit360/blob/master/acp/Subtraction.java> |

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| **What should I be looking for?** | **Sandbox or Your code?** |
| This program is a simple ACP that has to deal with calculations. It has the basic calculator features which includes Addition, Division, Multiplication and Subtraction. Together, all this classes work when the program is called. Two numbers options are open for inputs and based on the user input, the program can make a calculation of what the possible result would be. | Mine |