**Coding Topic:** sequence diagrams

**Description of Understanding:**

**Starting at:**

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| --- | --- | --- | --- |
| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| SequenceDiagramChess.pdf | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/StateDiagrams/SequenceDiagramChess.pdf** | Example of Sequence diagram | My creation |
| Sequence diagram.docx | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/StateDiagrams/sequance%20diagram.docx** | Notes, this is combined with tateDiagrams, but it’s there |  |

**Coding Topic:** MVC

**Description of Understanding:** MVC separates duties of a program, this facilitates sanitizing the information that is going to or from the system, minimizing attack surface. It also helps separate duties of programmers.

**Video:** https://youtu.be/wPerseZF4Dg

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| Model.java | [**https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/MVC/Model.java**](https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/MVC/Model.java) | Model | Sandbox |
| View.java | [**https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/MVC/View.java**](https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/MVC/View.java) | View | Sandbox |
| Controller.java | [**https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/MVC/Controller.java**](https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/MVC/Controller.java) | Controller | Sandbox |
| RunMVC.jar | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/MVC/** | Program to run it all | Sandbox |
| MVC.docx | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/MVC/MVC.docx** | Notes of what MVC is |  |

**Coding Topic:** JUnit Tests

**Description of Understanding:** this allows testing to be done in line, and in groups by doing a suite of tests, see file for more detailed examples

Video: https://youtu.be/27mH-kHoUH8

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| AllTests.java | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/JUnit/JunitTest/src/testing/AllTests.java** | Aggregation of all the tests | Sandbox |
| JUnit5AssertArrayEqualsDemo.java | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/JUnit/JunitTest/src/testing/JUnit5AssertArrayEqualsDemo.java** | An Assert equals | Sandbox |
| JUnit5AssertNotSameExample.java | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/JUnit/JunitTest/src/testing/JUnit5AssertNotSameExample.java** | AssertNotSame | Sandbox |
| JUnit5AssertTrueExample.java | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/JUnit/JunitTest/src/testing/JUnit5AssertTrueExample.java** | AssertTrue | Sandbox |
| JUnitTesting.java | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/JUnit/JunitTest/src/testing/JUnitTesting.java** | Next 2 tests are based upon this process | Sandbox |
| SquareTest.java | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/JUnit/JunitTest/src/testing/SquareTest.java** | Assert Equals | Sandbox |
| countATest.java | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/JUnit/JunitTest/src/testing/**countATest.java | Assert Equals | Sandbox |
| junitTests.docx | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/JUnit/junitTests.docx** | Write up of notes, some me, some other students forum posts |  |

**Coding Topic:** JSON

**Description of Understanding:** see JSON.docx

This is a resubmit, I have repaired the links, let me know if you still have problems, I will zip the folder and email it to you

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| JSON.docx | https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/**familiarity%20review/**JSON/JSON.docx | Description of knowledge |  |
| JSONExercise.java | https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/**familiarity%20review/**JSON/JSONexercise.java | Simple java program to create JSON string | sandbox |
| JSONExercise1.java | https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/**familiarity%20review/**JSON/JSONExercise1.java | Creates a JSON array | sandbox |
| Heros.html | https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/**familiarity%20review/**JSON/heros.html | JSON used in HTML application. | Made for CIT230 class. |
| JSONRead.java | https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/**familiarity%20review/**JSON/JSONRead.java | Example of creating json and reading it | Sandbox |

**Coding Topic:** System Level Test

**Description of Understanding:** This is a testing of a system to make sure the system is working as desired, testing things like front-end and back-end. This is a resubmit, I have made the AmazonTest.xlsx more repeatable and accurate to the video as you requested

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| AmazonTest.xlsx | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/SystemLevelTests/AmazonTest.xlsx** | List of tests on System | Self-made chart, based upon book |
| Zoom\_0.mp4 | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/SystemLevelTests/zoom\_0.mp4** | Video of me working through the Excell | Video |

**Coding Topic:** Threads, Executables, runnables

**Description of Understanding:** This seems like a useful tool in helping make use of modern CPUs and also is handling the many threads that can be needed when many users are accessing the same interface. Executables help balance the creation and removal of runnables and threads.

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| Multithread.java | https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/threading/Multithread.java | Showing threading | Mine |
| SimpleThreadPool.java | <https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/threading/SimpleThreadPool.java> | All three together | Mine |
| Threadsless.java | https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/threading/threadless.java | There is a timer on this, it shows 21 mil (threadA does it in 5) | Mine |
| Thread-executables.runnables.docx | https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/threading/thread-executables-runnables.docx | An explanation of what I understand and can do | My write up |

**Coding Topic:** sequence diagrams

**Description of Understanding:**

**Starting at:**

|  |  |  |  |
| --- | --- | --- | --- |
| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| SequenceDiagramChess.pdf | **https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/StateDiagrams/SequenceDiagramChess.pdf** | Example of Sequence diagram | My creation |
|  |  |  |  |

**Coding Topic:** Use case diagrams

**Description of Understanding:** this is a diagramming of how a program is expected to run when it is made. These diagrams break down who is involved, and what processes they are involved in.

**Teaching Video:  https://www.youtube.com/watch?v=lG5PcZW9e98**

**Starting at:** 16:00

**Also Integrated with:** Use case documents

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| Example\_1.pdf | [https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/UseCase/](https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/UseCase/Example_1.pdf) | A Diagram showing chess | Mine |
| useCaseExplenation.pdf | [https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/UseCase/](https://github.com/ireland-isaac/isaac-ireland.github.io/blob/master/familiarity%20review/UseCase/Example_1.pdf) | Describes use case objects | Mine |