Overview of Week 4

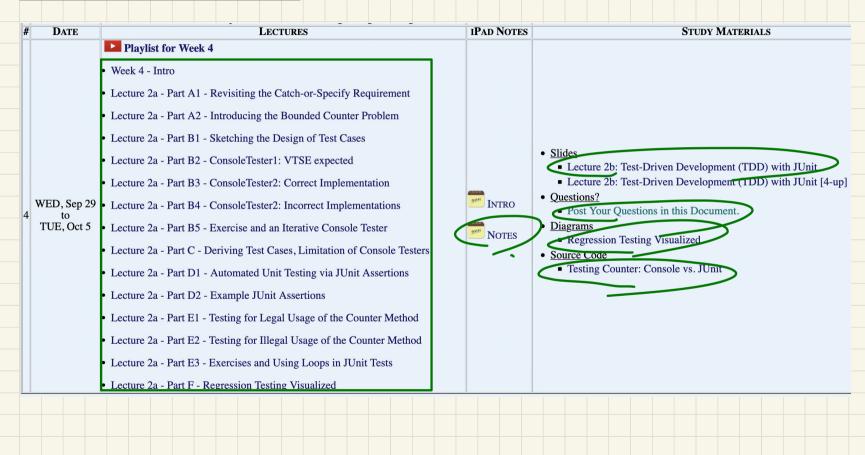| #	Date	Lectures	iPad Notes	Study Materials

4	WED, Sep 29 to TUE, Oct 5	▶ Playlist for Week 4
		
		• Week 4 - Intro
		• Lecture 2a - Part A1 - Revisiting the Catch-or-Specify Requirement
		• Lecture 2a - Part A2 - Introducing the Bounded Counter Problem
		• Lecture 2a - Part B1 - Sketching the Design of Test Cases
		• Lecture 2a - Part B2 - ConsoleTester1: VTSE expected
		• Lecture 2a - Part B3 - ConsoleTester2: Correct Implementation
		• Lecture 2a - Part B4 - ConsoleTester2: Incorrect Implementations
		• Lecture 2a - Part B5 - Exercise and an Iterative Console Tester
		• Lecture 2a - Part C - Deriving Test Cases, Limitation of Console Testers
		• Lecture 2a - Part D1 - Automated Unit Testing via JUnit Assertions
		• Lecture 2a - Part D2 - Example JUnit Assertions
		• Lecture 2a - Part E1 - Testing for Legal Usage of the Counter Method
		• Lecture 2a - Part E2 - Testing for Illegal Usage of the Counter Method
		• Lecture 2a - Part E3 - Exercises and Using Loops in JUnit Tests
		• Lecture 2a - Part F - Regression Testing Visualized
			📓 Intro
			
			📓 Notes
				• Slides
				  ▪ Lecture 2b: Test-Driven Development (TDD) with JUnit
				  ▪ Lecture 2b: Test-Driven Development (TDD) with JUnit [4-up]
				• Questions?
				  ▪ Post Your Questions in this Document.
				• Diagrams
				  ▪ Regression Testing Visualized
				• Source Code
				  ▪ Testing Counter: Console vs. JUnit

Learning Objectives of Week 4

- Revisiting the Catch-or-Specify Requirement
- The Bounded Counter Problem
- Deriving Test Cases for a Bounded Counter
- Design Logic of Test Cases: Normal vs. Abnormal
- Console Testers: Manual, Error-Prone, Non-Scalable
- JUnit Tests: Automated, Scalable
- Test-Driven Development (TDD) via Regression Testing

Milestones of Week 4

- Submit Lab1
- Complete Written Test 1 (to be released on Thu & Fri)
- Look Ahead: Lab2 and Programming Test 1 (see calendar)!
- Extra Practice: Java Tutorial from EECS1022-W21