**Lesson 7**

(5 min)

Logistics

* Check in — do you have your local dev environments set up? Progress check
* Github? Did everyone watch the tutorial and set up accordingly?
* Can everyone commit code?

(5 min)

Answer questions from last class

* Don’t know what cards are
* Log info syntax
* What does reprompt do in the code?

(10-15 min)

* Intro to Debugging
* Show how to debug using
  + Compiler / Build stack trace
  + Lambda testing
  + Simulator — run command, make sure it reaches endpoint
  + CloudWatch logs

(5 min)

**Testing & Debugging Slides (attached)**

(20 min)

* Pair programming — debugging activity — SpaceGeek
* First sync your branch with master
  + Should get updated code for space geek
  + Then try to upload new code to Lambda function and run
  + Test with simulator
* Types of bugs:
  + Syntax / Compiler
    - Neglecting import library — HashSet in ReqStreamHandler
  + Runtime
    - Java:
      * SpaceFacts.length — index out of bounds error
  + Interface
    - App Ids (incorrectly set)
* Logic
  + getFactResponse () — only gets first fact

(15 min)

Whole group — pairs take turns sharing:

* What bug(s) did you find & fix?
* **HOW** did you find them?

(5 min)

Wrap Up

* Weekend’s assignments:
  + Lab 4 + extension — bells & whistles — what might you do?
  + Record 1-2 min video of you interacting with your “helper”
  + Reading on Error Handling