PID: (page 1) Name: Sanaya Vakharia A17412057 import java.io.IOException; NumberServer.java import java.net.URI; (Server.java not shown) class Handler implements URLHandler { done in lab int num = 0; public String handleRequest(URI url) { /* handles requests for /, /increment, /add?count=X */ } class NumberServer { public static void main(String[] args) throws IOException { /* starts up the server on a port given in args[0] } TestNumberServer.java import static org.junit.Assert.*; import org.junit.*; import java.net.URI; import java.net.URISyntaxException; public class TestNumberServer { @Test public void testIncrement() throws URISyntaxException { Handler h = new Handler(); URI increment = new URI("http://localhost/increment"); URI rootPath = new URI("http://localhost/"); assertEquals("Number incremented!", h.handleRequest(increment)); assertEquals("Number: 1", h.handleRequest(rootPath)); , h.handleRequest(increment)); "Number: 2" assertEquals(, h.handleRequest(rootPath)); } } javac -cp .:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar Server.java NumberServer.java TestNumberServer.java java -cp .:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar org.junit.runner.JUnitCore TestNumberServer test.sh set -e start.sh javac Server.java NumberServer.java java NumberServer 4001 \$ bash test.sh \$ bash start.sh What do you notice and wonder about JUnit version 4.13.2 Server Started! Visit http://localhost:4001. this program and these commands? What problems do they solve? Time: 0.007 _____ OK (3 tests) Terminal Interaction At its simplest, a bash script (or shell script) is a sequence of commands we Goals/Outcomes: could run at the terminal - type bash test.sh instead of java-cp and saved in a file, usually with sh extension. iava - save the commands needed to run + test We can run them all by using the proj bash from the terminal on that file. It can save us a lot of typing and remembering commands. We can save bash scripts in repositories to make it easy to build after

cloning.

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What does set -e do and why should we care?

changed bash's behavior to stop after the first command with error. avoids confusing mix of success / failure output

What if we want to provide the port? How should we change start.sh below to accomplish that?

```
$ bash start.sh 8765
Server Started! Visit http://localhost:8765 to visit.
```

javac Server.java NumberServer.java
java NumberServer 4001

start.sh

This has a long list of .java files – what if we add another one? Any way to type less?

set -e

test.sh

javac -cp .:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar Server.java NumberServer.java TestNumberServer.java

java -cp .:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar org.junit.runner.JUnitCore TestNumberServer