Java Plays : Alchemy API Lab

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AGENDA

❑ Purpose of This Lab

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❑ Register for Alchemy API Key

❑ Create a New Java Project

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Purpose of This Lab

In this lab, you will learn how to use the rich set of Cognitive Computing APIs made available using Alchemy APIs.

# *Pre-Requisite*

❑ Install Eclipse Mars

❑ Install Java JDK 1.7

Step 1: Register for API Key

❑ Register for API Key at http://www.alchemyapi.com/api/register.html.

❑ Check your email address for a key from AlchemyAPI.

❑ You will replace the key shown below with your Alchemy API Key in each AlchemyAPI snippet.

```
19        AlchemyAPI alchemyObj = AlchemyAPI.GetInstanceFromString("5fc91e98eacfa5ebf83440e8c6a61d0f60fa380b");
20
```

Step 2: Create a New Java Project
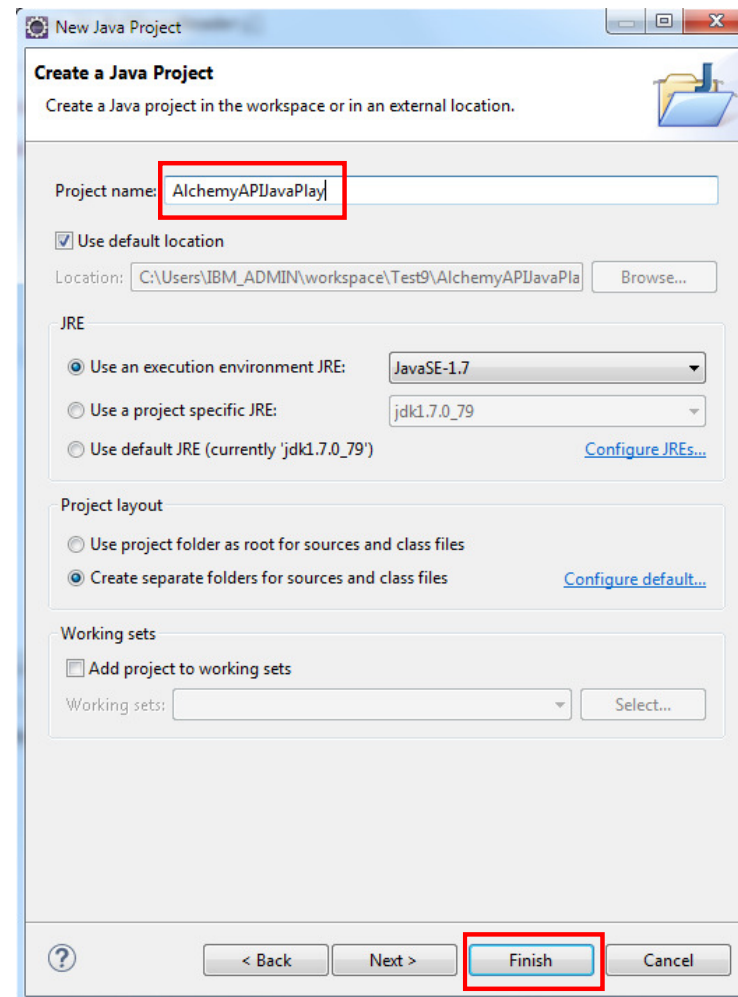
❑ Open your local Eclipse pointing to your preferred workspace.

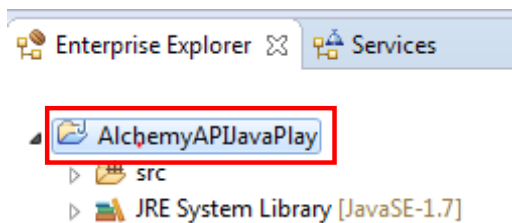❑ Click left upper top menu, File >> New >> Java Project.
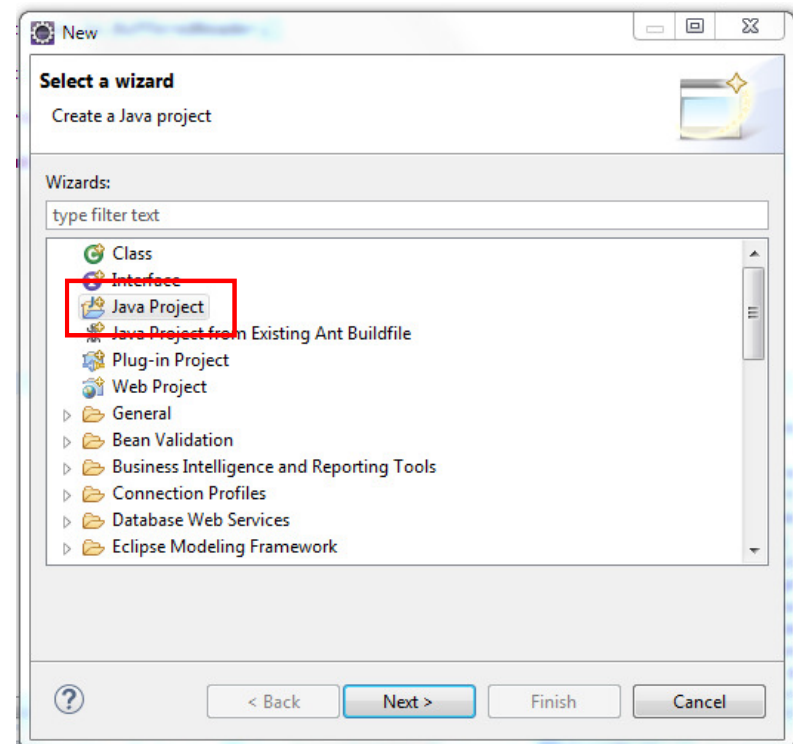
❑ Click Next.

❑ Name the project, AlchemyAPIJavaPlay.

❑ Click Finish.

❑ You have successfully created a lab project.
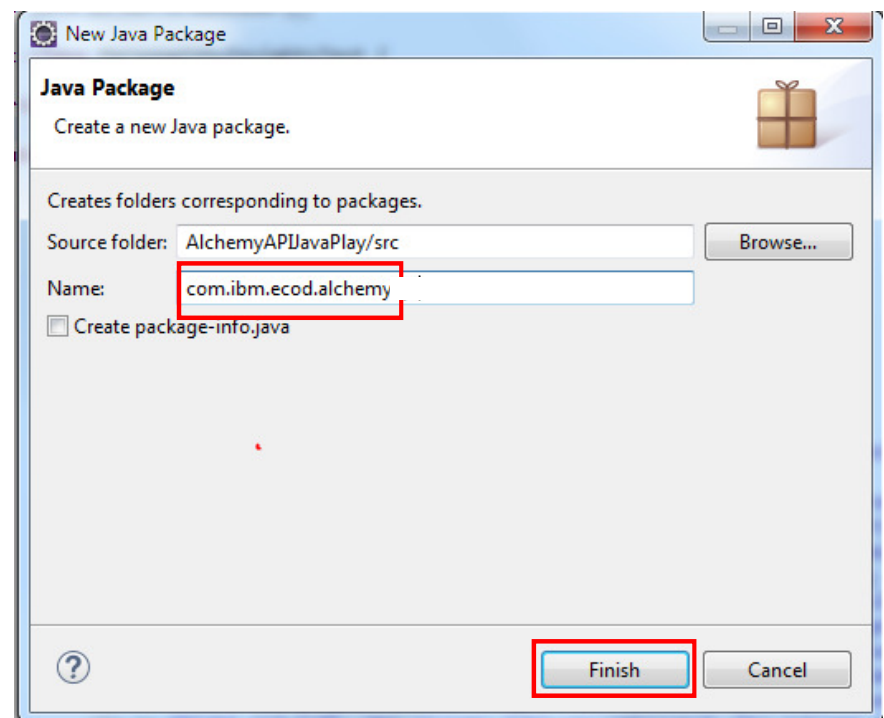

❑ Right click on the project.

❑ Select New >> Package.

❑ Name the package as **com.ibm.ecod.alchemy**

❑ Click Finish.

Step 3: Add Alchemy API Dependency

❑ Go to AlchemyAPI GitHub repository at https://github.com/ibmecod/javaplays-alchemyapi

❑ Click Download Zip.

❑ Unzip the downloaded file in your local folder.
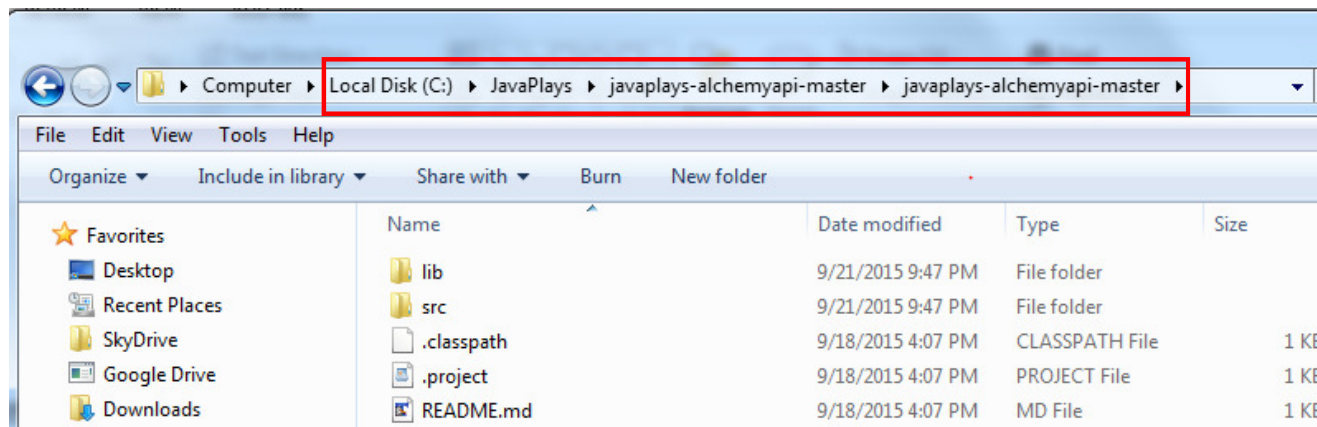
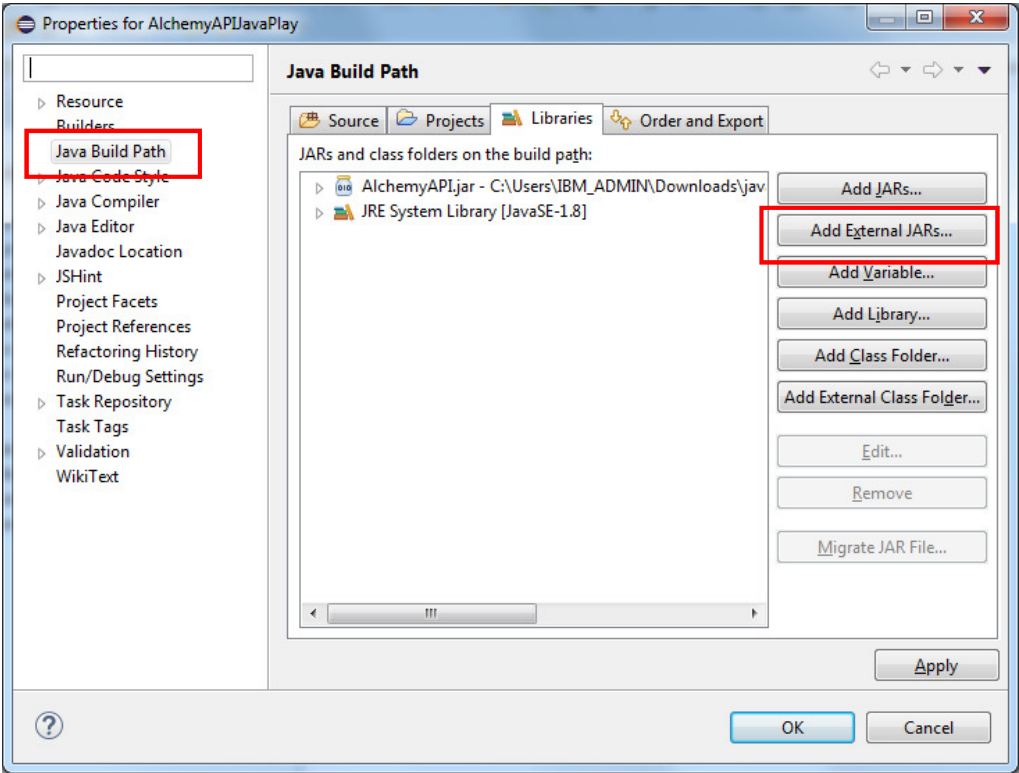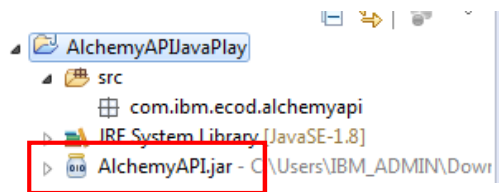❑ Right click on your new Eclipse project >> Click Properties at the bottom.

❑ Select Java Build Path.

❑ Click on Libraries tab >> Click Add External JARs.

❑ Select AlchemyAPI.jar from your unzipped folder. e.g. \javaplays-alchemyapi-master\lib

❑ Click OK.

❑ Now, you are ready to add code using Alchemy API.

Step 4: Run Author Test Java Snippet

❑ Double click each Java file to copy and paste the code into **com.ibm.ecod.alchemy** package you created in the new eclipse project, AlchemyAPIJavaPlay .
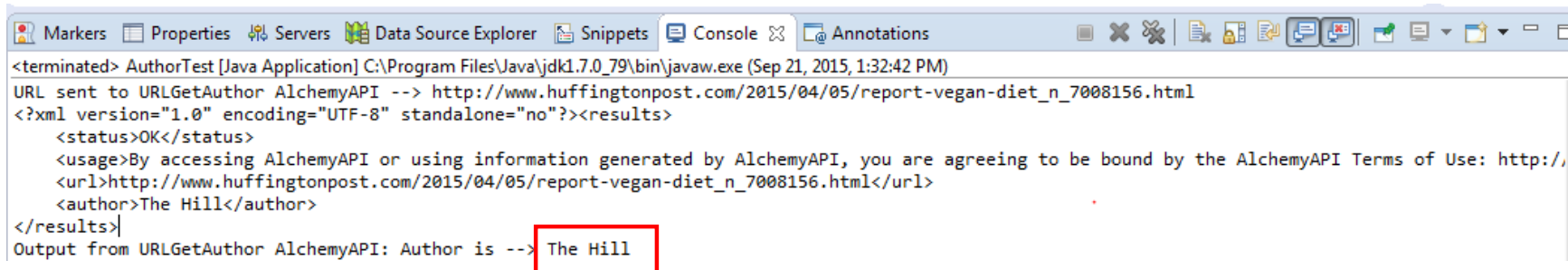
AlchemyUtility.java   AuthorTest.java

❑ Replace the Alchemy API key on line 18 in AuthorTest.

❑ Right click on the class.

❑ Select Run As >> Java Application.

❑ You will see the following result.

Markers | Properties | Servers | Data Source Explorer | Snippets | Console | Annotations

```
<terminated> AuthorTest [Java Application] C:\Program Files\Java\jdk1.7.0_79\bin\javaw.exe (Sep 21, 2015, 1:32:42 PM)
URL sent to URLGetAuthor AlchemyAPI --> http://www.huffingtonpost.com/2015/04/05/report-vegan-diet_n_7008156.html
<?xml version="1.0" encoding="UTF-8" standalone="no"?><results>
    <status>OK</status>
    <usage>By accessing AlchemyAPI or using information generated by AlchemyAPI, you are agreeing to be bound by the AlchemyAPI Terms of Use: http://
    <url>http://www.huffingtonpost.com/2015/04/05/report-vegan-diet_n_7008156.html</url>
    <author>The Hill</author>
</results>
Output from URLGetAuthor AlchemyAPI: Author is --> The Hill
```

❑ Replace the URL on line 20 with a URL of your choice and run the API snippet again.

Step 5: Run All Alchemy Test Java Snippets

❑ Repeat the same steps defined in step 4 to run each of the following Java Class files. No need to copy AlchemyUtility.java file again.

CategoryTest.java

ConstraintQueryTest.java

EntityTest.java

FeedLinksTest.java

ImageTest.java

KeywordTest.java

LanguageTest.java

RelationsTest.java

SentimentTest.java

TaxonomyTest.java

TextExtractTest.java

This ends the Alchemy API Lab.

Thank you !