How should GQLapp be executed?

In this document, we will show you how to use Eclipse to create a Google App Engine (GAE) Python web project (GQLapp program), run it locally.

Tools used :

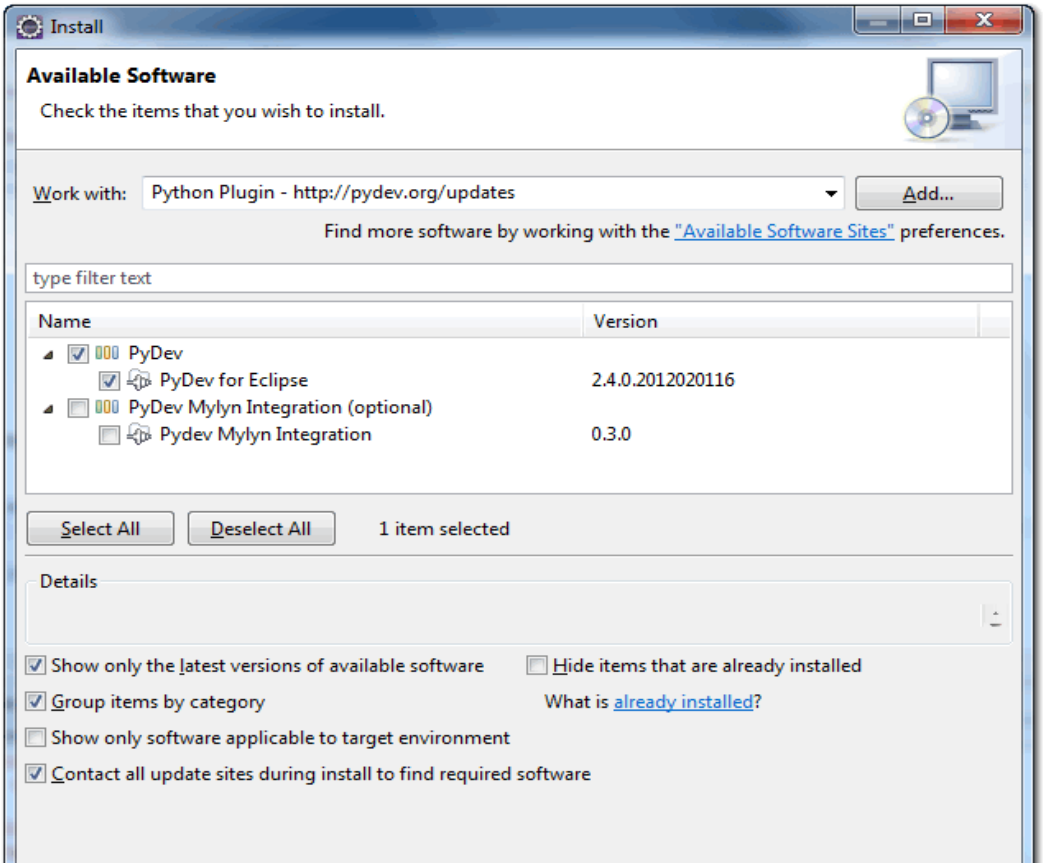
- Python 2.7
- Eclipse 3.7 + PyDev plugin
- Google App Engine SDK for Python 1.6.4

P.S Assume Python 2.7 and Eclipse 3.7 are installed.

1. Install PyDev plugin for Eclipse

Use the URL to install PyDev as Eclipse plugin: http://pydev.org

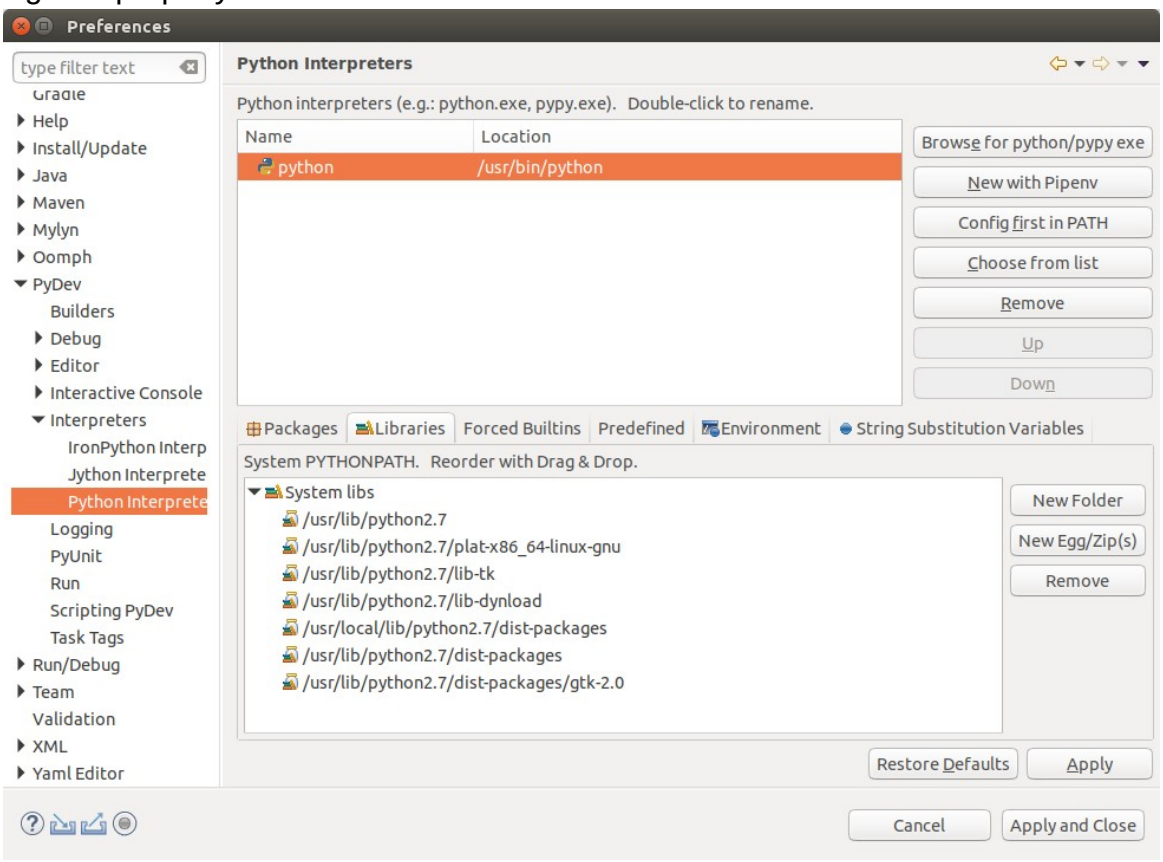
Figure 1 – In Eclipse , menu, “Help –> Install New Software..” and put above URL. Select **“PyDev for Eclipse”** option, follow steps, and restart Eclipse once completed.



2. Verify PyDev

After Eclipse is restarted, make sure PyDev's interpreter is pointed to your "python" executable.

Figure 2 – Eclipse -> Windows –> Preferences, make sure **"Interpreter – Python"** is configured properly.



3. Google App Engine SDK Python

Download and install Google App Engine SDK for Python:
https://cloud.google.com/appengine/downloads#Google_App_Engine_SDK_for_Python

4. Python GQLapp in Eclipse

Following steps to show you how to create a GAE project via Pydev plugin.

Figure 4.1 – Eclipse menu, File -> New -> Other… , PyDev folder, choose **“PyDev Google App Engine Project“.**

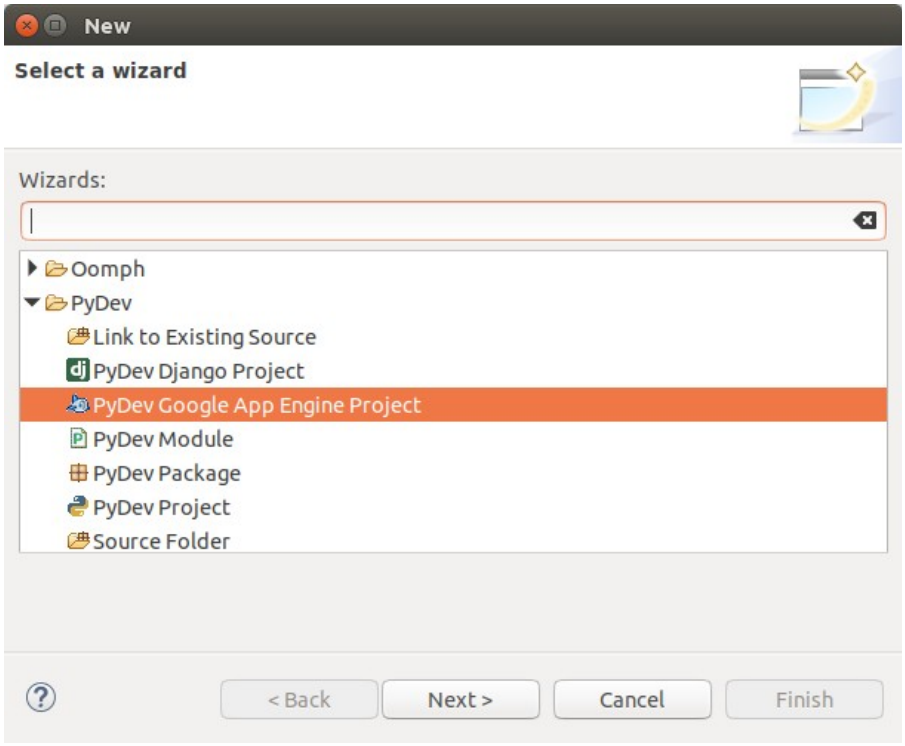


Figure 4.2 – Type project name, if the interpreter is not configure yet (in step 2), you can do it now. And select this option – **“Create ‘src’ folder and add it to PYTHONPATH“**. Configure the Python Interpreter; you can do it manually (indicating the path), or choosing one from a list (choose python).

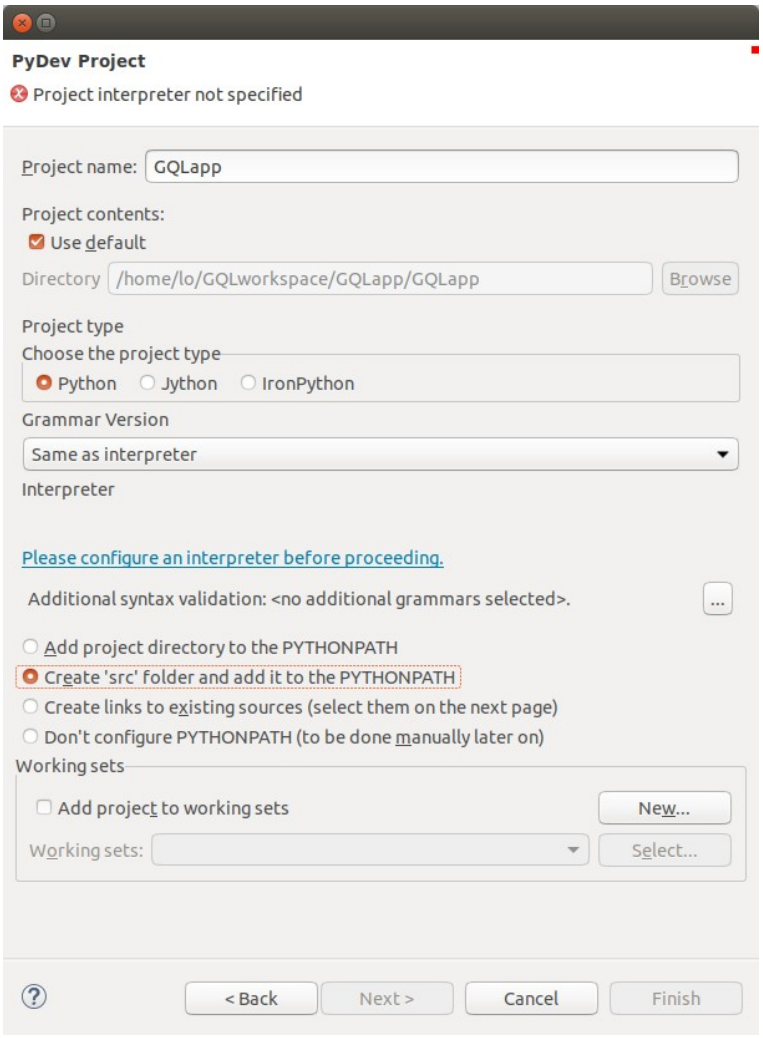
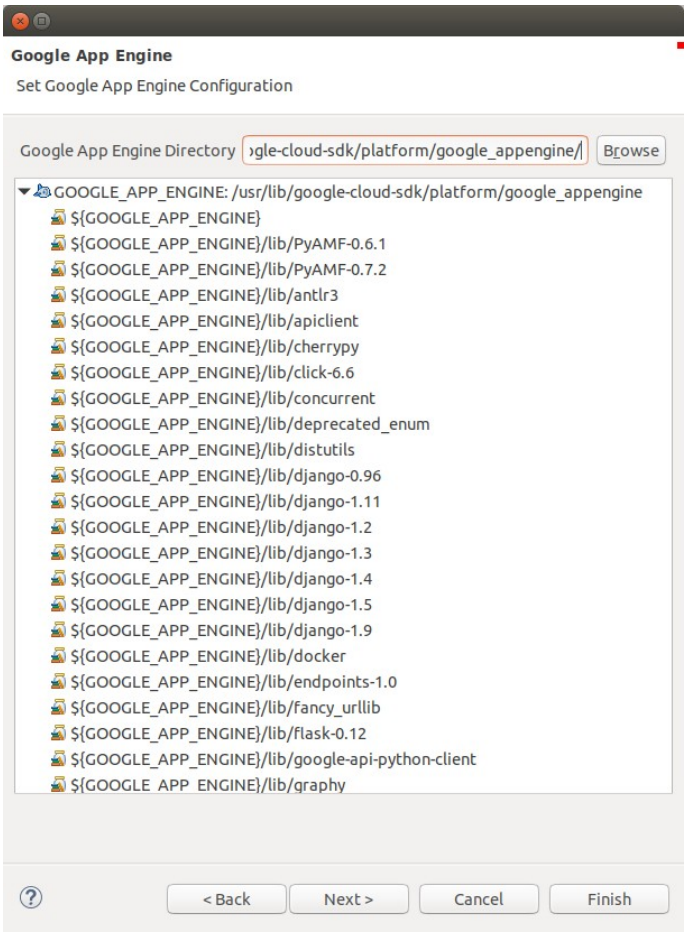
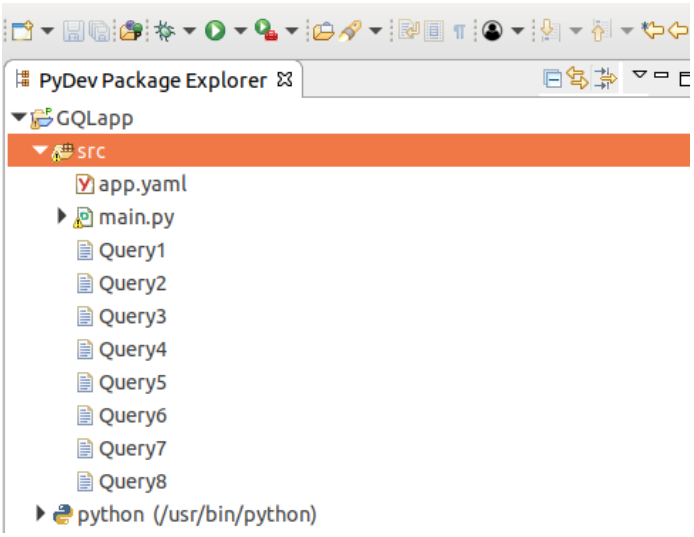


Figure 4.3 – Click “Browse” button and point it to the Google App Engine installed directory (in step 3). The path: /usr/lib/google-cloud-sdk/platform/google_appengine/



Move **main.py** and **app.yaml** files to the **src** folder of your Eclipse working directory and refresh the project in Eclipse. If you want execute the queries used in the experiment, move to the same directory the queries and refresh the project in Eclipse.



5. Run it locally

To run it locally, right click on the helloworld.py, choose “Run As” –> “Run Configuration”, create a new **“PyDev Google App Run“.**

Figure 5.1 – In Main tab -> Main module, select the directory path of **“main.py“**.

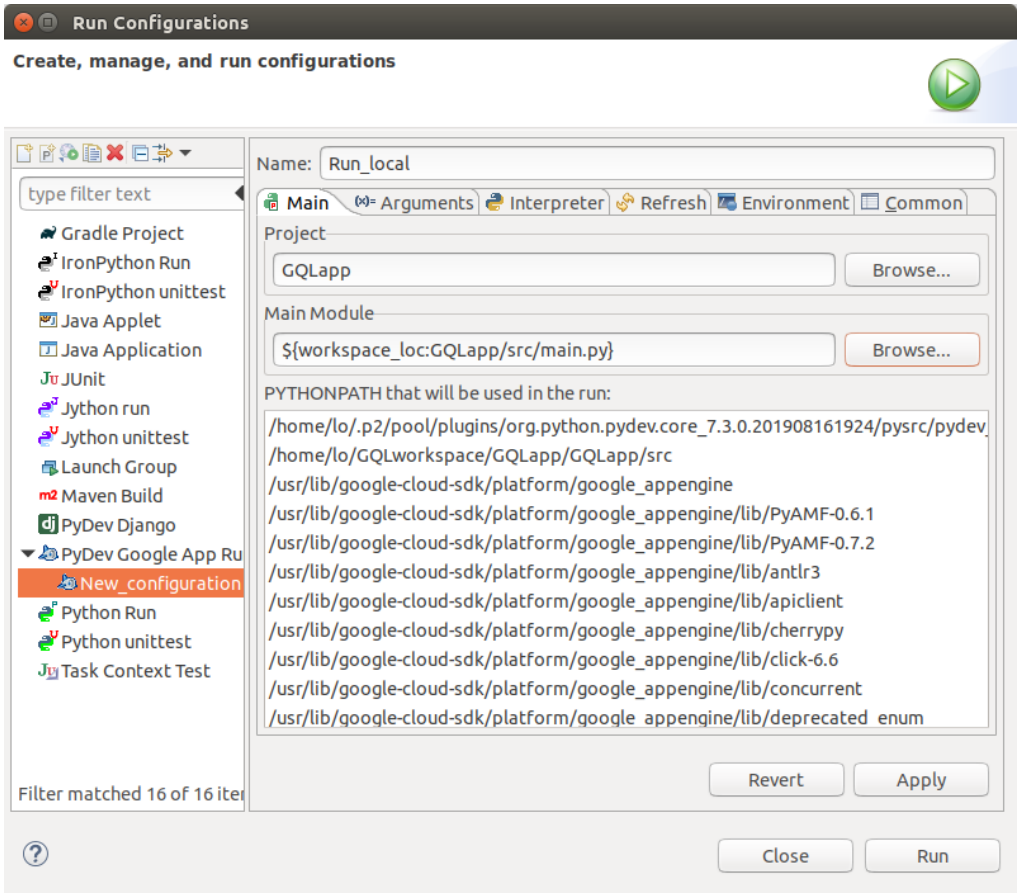


Figure 5.2 – In Arguments tab -> Program arguments, put **“${project_loc}/src“.**

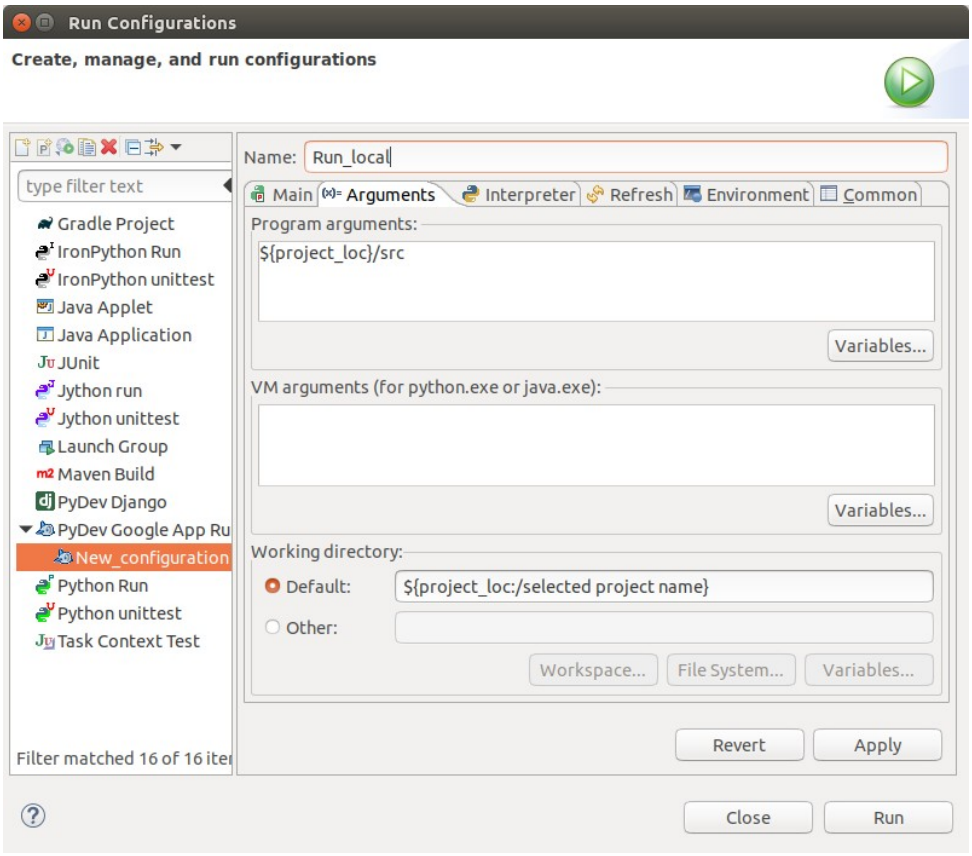
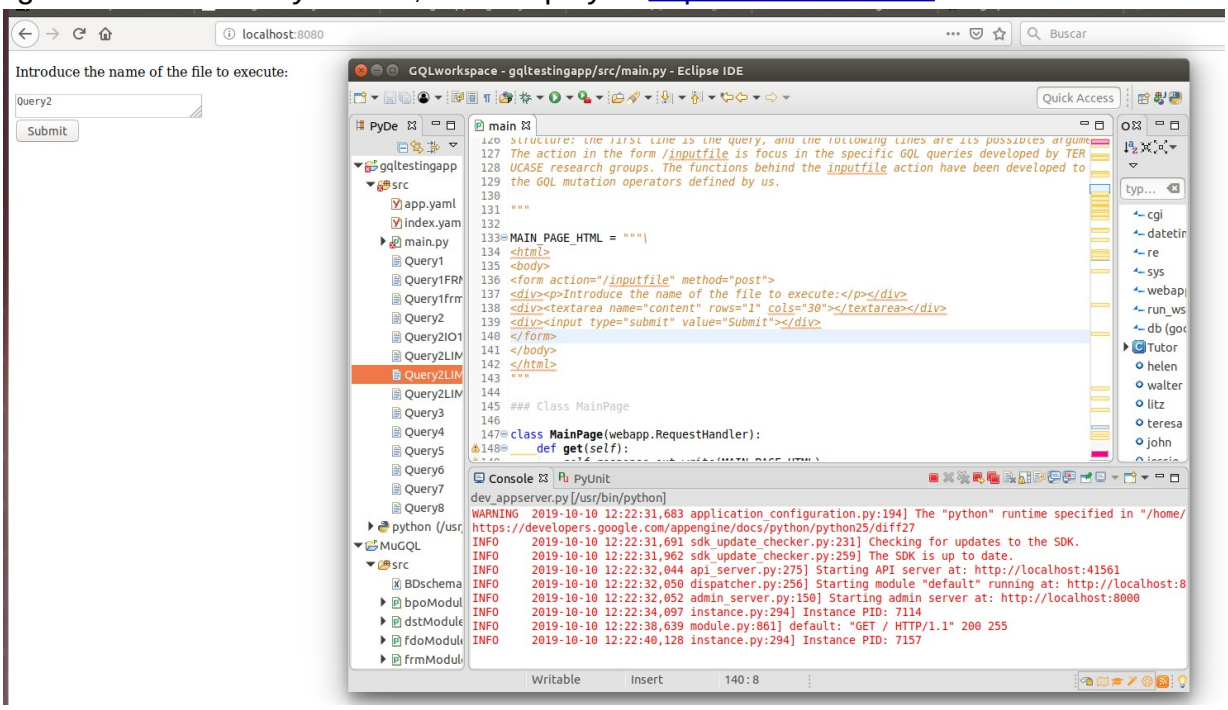


Figure 5.3 – Run it. By default, it will deploy to http://localhost:8080.



References

PyDev Plugin for Eclipse : References

1. PyDev Plugin for Eclipse
2. Yaml Official Website
3. GAE getting start with Python
4. Install PyDev for Eclipse
5. Google app engine Python hello world example using Eclipse