**LAB 1: Install Google App Engine. Create hello world app and other**

**simple web applications using python/java**

1.Open App engine

2.In the left navigation menu go to app engine and then dashboard..create application

3.Set the region

4.Resources – Language – Python – Standard

Open the cloudshell terminal:

Step 1: git clone <https://github.com/GoogleCloudPlatform/python-docs-samples>

Step 2: cd python-docs-samples/appengine/standard\_python3/hello\_world

Step 3: ls

Step 4: nano main.py

New file opens

Change the text in the line that shows

Step 5 : gcloud app deploy

Step 6: gcloud app browse

Then you get a link …click on that !!

**LAB 2 : Use GAE launcher to launch the web applications**

Step 1 **:** Install the Google Cloud CLI

Step 2 : gcloud init

Choice is 2 :Create a new configuration

Login with new account

Go to console

Create a new project

Go to App engine in navigation panel

Type in command :

Create an application in app engine standard

Select the same

Type create application

Create the application python as resource and standard

Then type

Step 1: git clone <https://github.com/GoogleCloudPlatform/python-docs-samples>

Step 2: cd python-docs-samples/appengine/standard\_python3/hello\_world

**gcloud app deploy**

**gcloud app browse**

**Done!**

**LAB 3:** **Simulate a cloud scenario using CloudSim and run a scheduling algorithm**

**that is not present in CloudSim**

Download the initials required

<https://www.oracle.com/java/technologies/downloads/> -- jdk

<https://download.cnet.com/java-runtime-environment-jre/3000-2213_4-10009607.html> -- jre

<https://github.com/Cloudslab/cloudsim/releases> -- cloudsim

<https://www.eclipse.org/downloads/> -- eclipse

<https://github.com/suyash-more/Cloud-Computing-Projects> -- Source repository

INstall cloudsim eclipse

New – java project – new package –custom\_package—right click on src – show in – file explorer

Copy paste all the files in the src folder reload the eclipse

Right click on main project – right click build path –configure build path – add external jars –select both cloudsim—run as java application

Find sjf\_scheduler file click ok

**LAB 4 : Find a procedure to transfer the files from one virtual**

**machine to another virtual machine**

1)create 2 vms

2)prefernces – network – add a nat network

3)go to settings of both the vms –network—attach to –nat network –

4)start the vms

5)ifconfig in vm1

Ping [ip of vm2]

Stop

Create file

Touch abc.txt

Cat abc.txt

Nano abc.txt

Scp transfer.txt [vagrant@10...[]:/home/vagrant](mailto:vagrant@10...[]:/home/vagrant)

Enter password

**LAB 5:**

**Using AWS:**

Login to Aws

Create a instance

Create new key pair

Connect to instance

RDP client

Download desktop app

Upload key file .pem file

Enter password in that app

Connect

Done!