**Ass 1] Google App Engine**

Video: https://www.youtube.com/watch?v=2lhOEO-zmjw

GAE install : <https://www.npackd.org/p/com.google.AppEnginePythonSDK/1.9.62>

Python 2.7.9 : <https://www.python.org/downloads/release/python-279/>

GAE ---> edit -🡪 preferences -🡪 path setting python path, app engine sdk

Create folder -🡪 app

GAE -🡪file -🡪Create new application -🡪application name(engineapp),parentdirectory(app) -🡪create -🡪run 🡪browser

**Ass 2] Google App Engine Launcher**

Website: <https://cloud.google.com/sdk/docs/install>

#install that from above

Install :<https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-linux-x86_64.tar.gz>

#move and extract in downloads

#Terminal # paste path of extracted file in terminal

./google-cloud-sdk/bin/gcloud init

Website : <https://cloud.google.com/appengine/docs/flexible/python/create-app>

#Commands:

gcloud components install app-engine-python

git clone https://github.com/GoogleCloudPlatform/python-docs-samples

cd python-docs-samples/appengine/flexible/hello\_world

python3 -m venv env source env/bin/activate

cd *YOUR\_SAMPLE\_CODE\_DIR* pip install -r requirements.txt

python main.py

<http://localhost:8080>

**Ass 3] CloudSim**

Video : https://youtube.com/watch?v=a7sj6nT0na0&feature=shared

1)sudo add-apt-repository ppa:webupd8team/java

2)sudo apt-get update && sudo apt-get install oracle-java8-installer

3)sudo update-alternatives --config java Or sudo apt install openjdk-8-jdk sudo update-alternatives --config java

4)sudo gedit /etc/environment JAVA\_HOME="usr/lib/jvm/java-8-openjdk-amd64"

5)Install this: <https://github.com/Cloudslab/cloudsim/releases/download/cloudsim-3.0.3/cloudsim-3.0.3.zip>

and extract to Home itself. Not in the desktop folder.

6)sudo apt install ant

ant -version

7)cd ~/cloudsim-3.0.3

ls

You see build.xml docs examples.txt license.txt readme.txt sources ...

8) javac -source 8 -target 8 -classpath jars/cloudsim-3.0.3.jar:examples examples/org/cloudbus/cloudsim/examples/CloudSimExample1.java

9) java -classpath jars/cloudsim-3.0.3.jar:examples org.cloudbus.cloudsim.examples.CloudSimExample1

Git : <https://github.com/koushal2001/CloudComputing>

**Ass 4] VM to VM transfer**

Video: https://www.youtube.com/watch?v=0MaS0nZCTZc

Install : <https://download.virtualbox.org/virtualbox/7.1.8/VirtualBox-7.1.8-168469-Win.exe>

File : <https://drive.google.com/drive/u/0/folders/1me_nJJh0fvdDOXX3ew2jzGQpoP7f_iFt>

vagrant

ifconfig -🡪 both

sudo apt install net-tools

ping 172.168.2.5 ^C --🡪both

ls

touch transfer.txt

ls

nano transfer.txt --🡪 hello

ls

cat transfer.txt

scp transfer.txt [vagrant@172.168.2.5:/home/vagrant](mailto:vagrant@172.168.2.5:/home/vagrant)

password

ls --🡪both

**Ass 5] Salesforce**

Video : <https://youtu.be/n4Nx7YD5_mY?si=unhdV_kzKKEMjvJf>