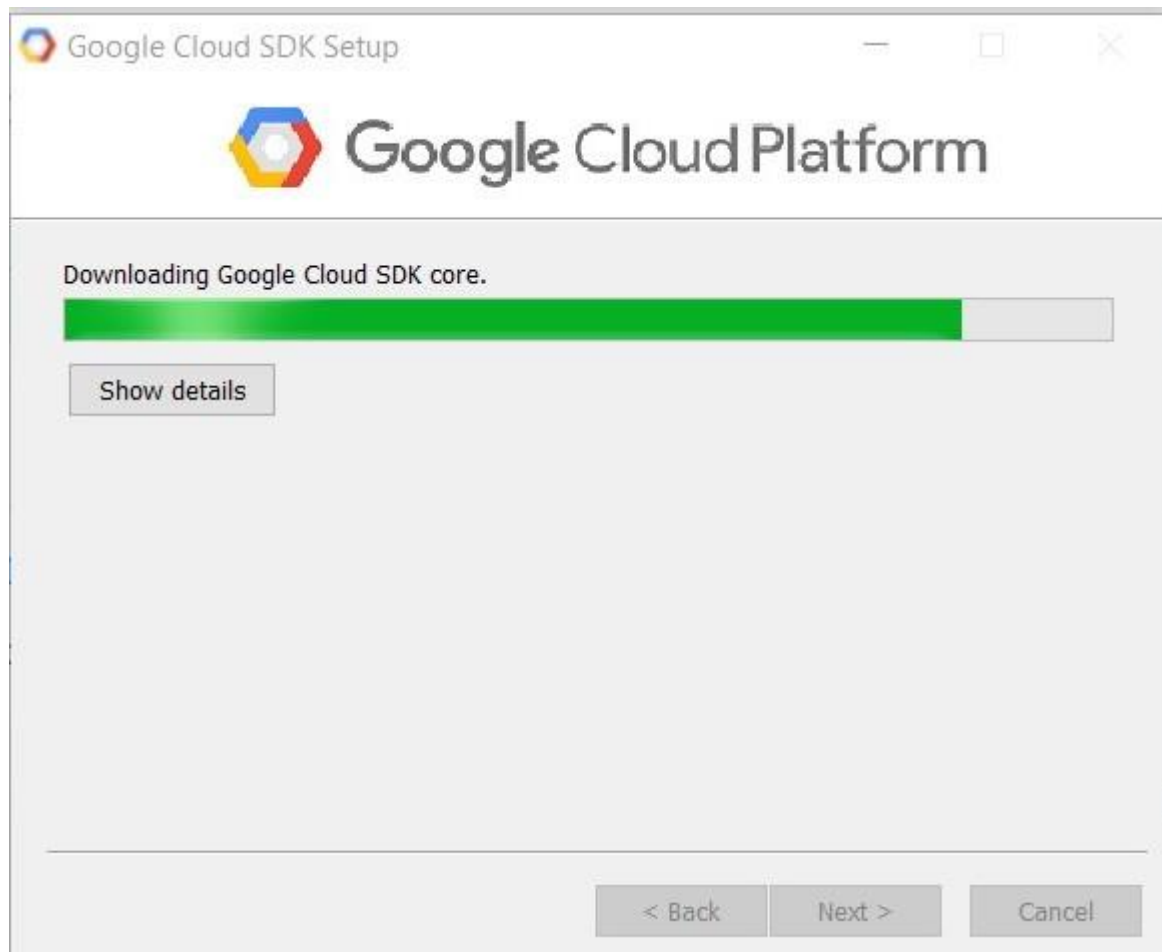


EX. NO: 5
DATE: 13/10/2020

GOOGLE APP ENGINE

Screenshots:

Step 1:



Step 2:

```
C:\WINDOWS\SYSTEM32\cmd.exe

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

You must log in to continue. Would you like to log in (Y/n)? Y

Your browser has been opened to visit:

https://accounts.google.com/o/oauth2/auth?client_id=32555940559.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&code_challenge=LVCi9hFGyXMTSaDT3R_IxX49kazdCJ1Fa7vGqqXKrnM&code_challenge_method=S256&access_type=offline&response_type=code&prompt=select_account

You are logged in as: [harshakannan5@gmail.com].

Pick cloud project to use:
[1] course-eeef8
[2] my-application-eba8d
[3] ssnce-276505
[4] ssnce1
[5] student-aed2b
[6] upload-89c61
[7] uploadupdated
[8] Create a new project
Please enter numeric choice or text value (must exactly match list item): 8
```

Step 3:

```
C:\WINDOWS\SYSTEM32\cmd.exe

C:\Users\HP\AppData\Local\Google\Cloud SDK>gcloud projects create cloudcomputinglaboratory
Create in progress for [https://cloudresourcemanager.googleapis.com/v1/projects/cloudcomputinglaboratory].
Waiting for [operations/cp.6118157358414358133] to finish...done.
Enabling service [cloudapis.googleapis.com] on project [cloudcomputinglaboratory]...
Operation "operations/acf.9d642757-1c0d-458d-a0ed-c897811e4d3d" finished successfully.

C:\Users\HP\AppData\Local\Google\Cloud SDK>gcloud config set project cloudcomputinglaboratory
Updated property [core/project].

C:\Users\HP\AppData\Local\Google\Cloud SDK>
```

Step 4:

```
C:\WINDOWS\SYSTEM32\cmd.exe - google-cloud-sdk\bin\dev_appserver.py C:\Users\HP\OneDrive\Desktop\My Folder\Games\Clo...
C:\Users\HP\AppData\Local\Google\Cloud SDK>google-cloud-sdk\bin\dev_appserver.py C:\Users\HP\OneDrive\Desktop\My Folder\Games\Cloud Computing Laboratory
This action requires the installation of components: [app-engine-python, cloud-datastore-emulator]

Your current Cloud SDK version is: 315.0.0
Installing components from version: 315.0.0

-----+
      These components will be installed.      |
-----+-----+-----+
      Name          | Version | Size |
-----+-----+-----+
Cloud Datastore Emulator | 2.1.0 | 18.4 MiB |
gRPC python library      | 1.20.0 |      |
gRPC python library      | 1.20.0 | 1.5 MiB |
gcloud app Python Extensions | 1.9.91 | 6.1 MiB |
-----+-----+-----+

For the latest full release notes, please visit:
https://cloud.google.com/sdk/release\_notes

Do you want to continue (Y/n)? Y

=====#
# Creating update staging area                =#
=====
```

Step 5:

```
C:\WINDOWS\SYSTEM32\cmd.exe - py dev_appserver.py C:\Users\HP\OneDrive\Desktop\Cloud
C:\Users\HP\AppData\Local\Google\Cloud SDK\google-cloud-sdk\bin>py dev_appserver.py C:\Users\HP\OneDrive\Desktop\Cloud
[INFO] 2020-10-27 01:08:27,816 devappserver2.py:289] Skipping SDK update check.
WARNING 2020-10-27 01:08:28,581 simple_search_stub.py:1198] Could not read search indexes from c:\users\hp\appdata\local\temp\appengine.cloudcomputinglaboratory\search_indexes
[INFO] 2020-10-27 01:08:28,585 api_server.py:282] Starting API server at: http://localhost:57911
[INFO] 2020-10-27 01:08:28,598 dispatcher.py:267] Starting module "default" running at: http://localhost:8080
[INFO] 2020-10-27 01:08:28,604 admin_server.py:150] Starting admin server at: http://localhost:8000
[INFO] 2020-10-27 01:08:31,617 instance.py:294] Instance PID: 16724
```

Step 6:

Google App Engine

Development SDK 0.0.0

dev~cloudcomputinglaboratory

Instances

Datastore Viewer

Datastore Indexes

Datastore Stats

Interactive Console

Memcache Viewer

Blobstore Viewer

Task Queues

Cron Jobs

XMPP

Inbound Mail

Full Text Search

Instances

	Latency (ms)	QPS	Total Requests	Runtime
default				python27
fe1ef238a40f8bac38daa5dd00dc4a3bdaeb	0.0	0.00	0	

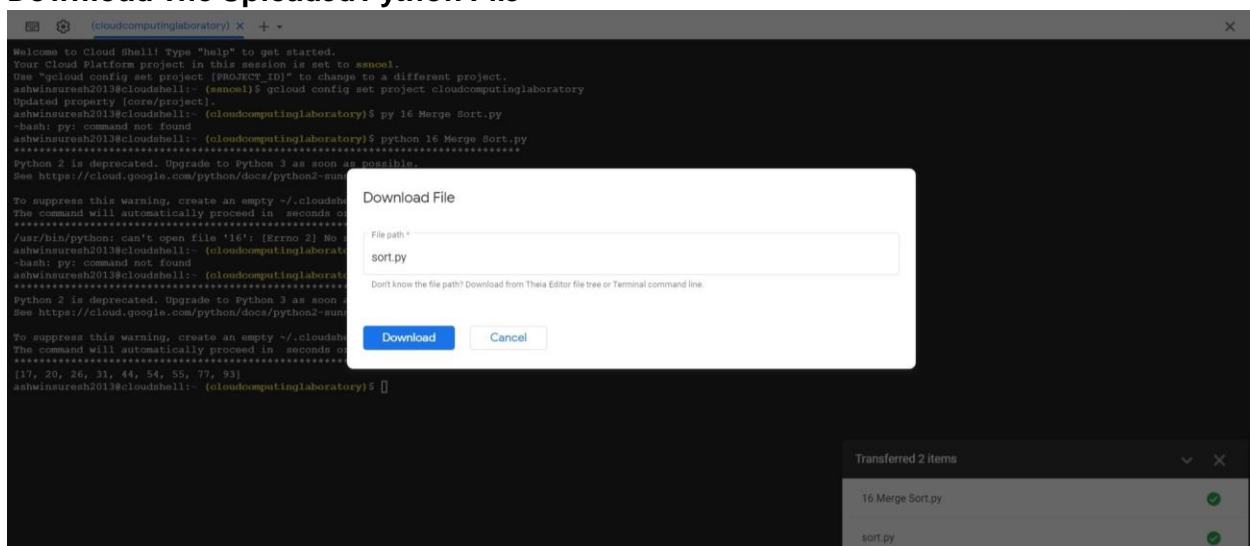
Step 7:

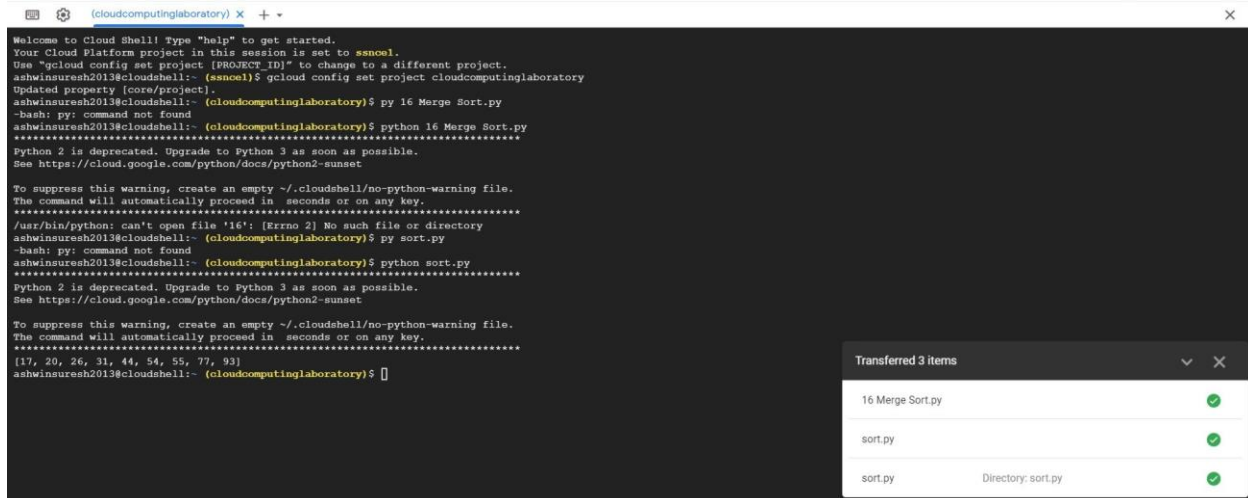


Step 8: Upload Any Python File To The Cloud And Execute It



Step 9: Download The Uploaded Python File





The screenshot shows a Cloud Shell terminal window with the following content:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to senceal.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
ashwinaresh2013@cloudshell:~ (cloudcomputinglaboratory)$ gcloud config set project cloudcomputinglaboratory
Updated property [core/project].
ashwinaresh2013@cloudshell:~ (cloudcomputinglaboratory)$ py 16 Merge Sort.py
-bash: py: command not found
ashwinaresh2013@cloudshell:~ (cloudcomputinglaboratory)$ python 16 Merge Sort.py
*****
Python 2 is deprecated. Upgrade to Python 3 as soon as possible.
See https://cloud.google.com/python/docs/python2-sunset

To suppress this warning, create an empty ~/.cloudshell/no-python-warning file.
The command will automatically proceed in  seconds or on any key.
*****
/usr/bin/python: can't open file '16': [Errno 2] No such file or directory
ashwinaresh2013@cloudshell:~ (cloudcomputinglaboratory)$ py sort.py
-bash: py: command not found
ashwinaresh2013@cloudshell:~ (cloudcomputinglaboratory)$ python sort.py
*****
Python 2 is deprecated. Upgrade to Python 3 as soon as possible.
See https://cloud.google.com/python/docs/python2-sunset

To suppress this warning, create an empty ~/.cloudshell/no-python-warning file.
The command will automatically proceed in  seconds or on any key.
*****
[17, 20, 26, 31, 44, 54, 55, 77, 93]
ashwinaresh2013@cloudshell:~ (cloudcomputinglaboratory)$
```

On the right side of the terminal, there is a confirmation box titled "Transferred 3 items" with a dropdown arrow and a close button. It contains the following items, each with a green checkmark:

Transferred 3 items	
16 Merge Sort.py	✓
sort.py	✓
sort.py	Directory: sort.py ✓

Result:

Hence, A Basic Hello World Application Has Been Created And Deployed Successfully Using Python And Google App Engine.