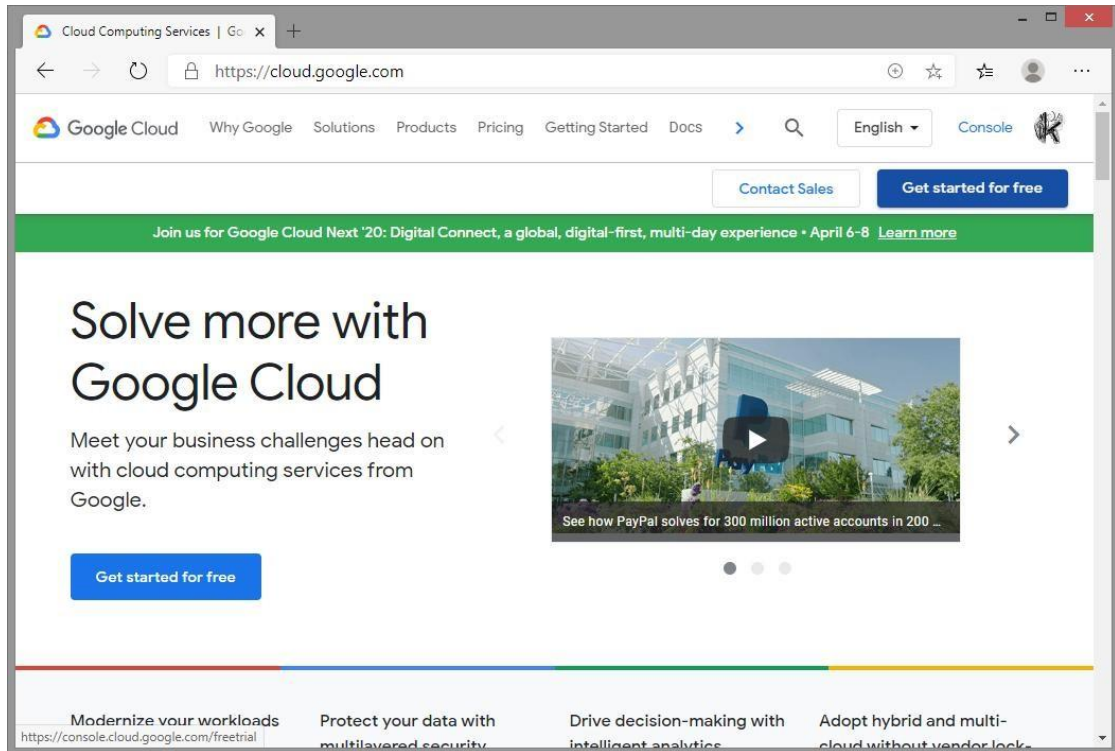
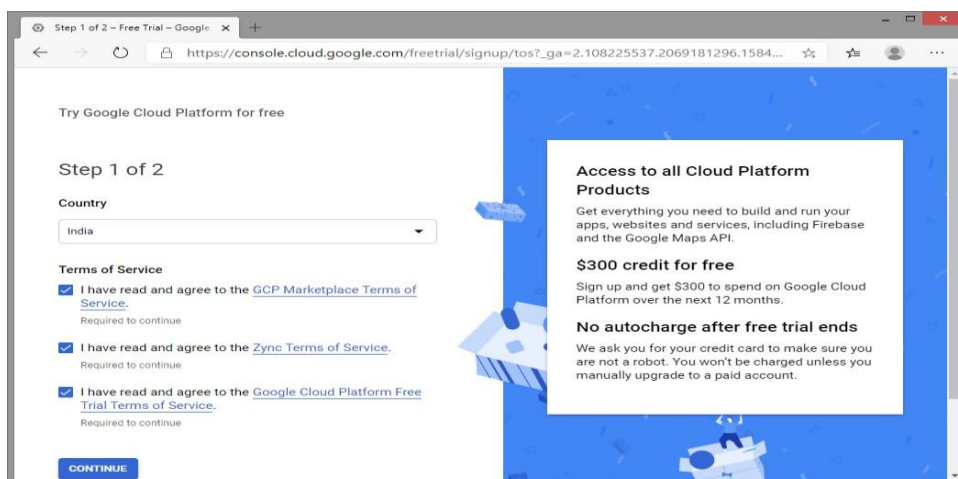


PHP

1. Create an account with Google Cloud Platform. This can be done by visiting <https://cloud.google.com>

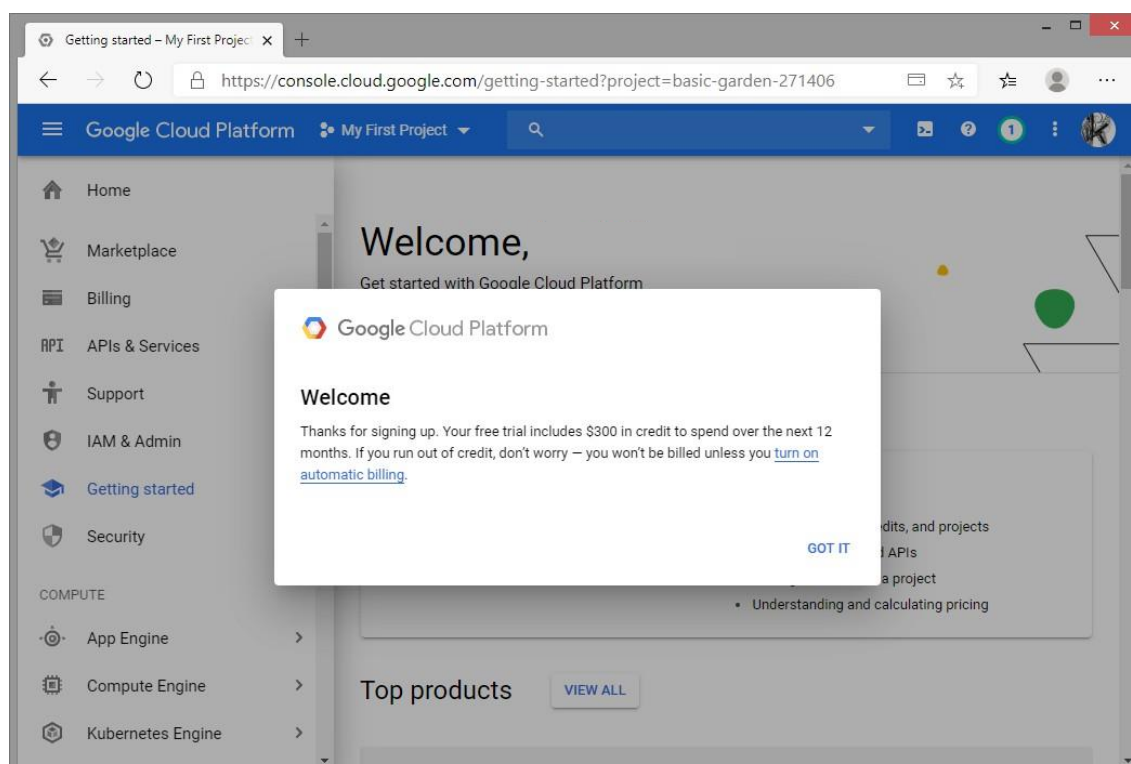
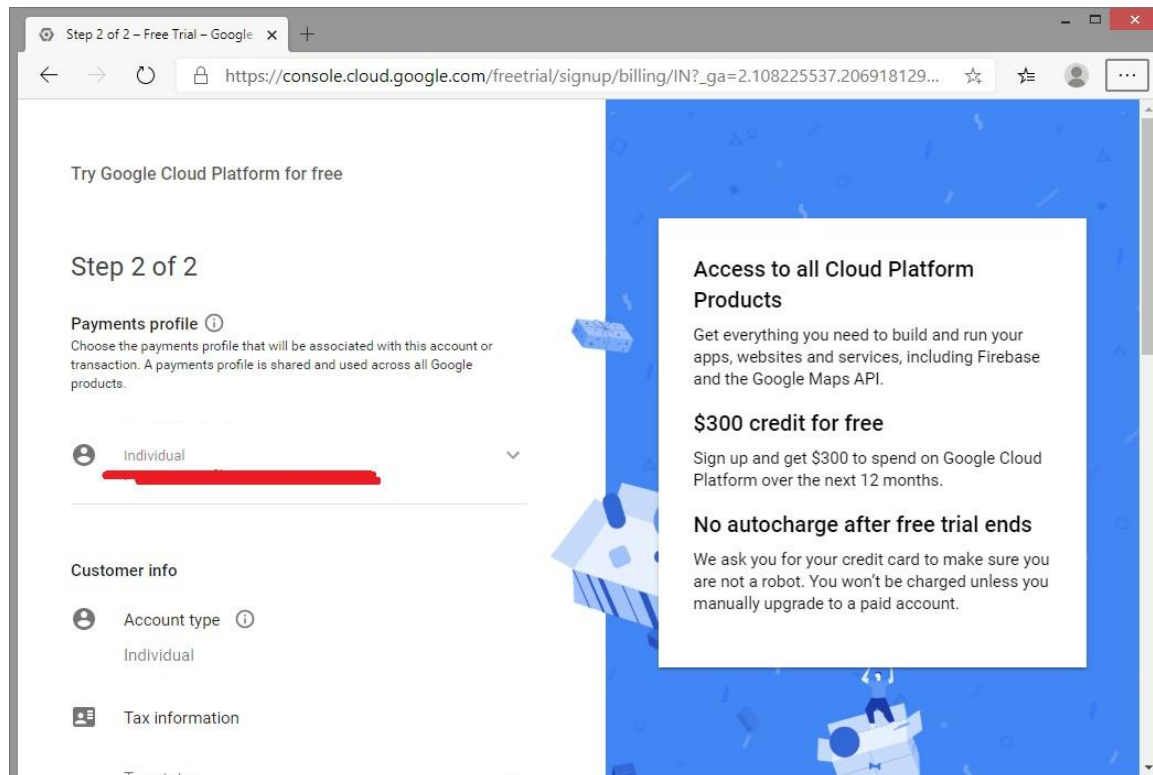


2. In Sign-up page step 1 of 2 choose country and agree to EULA.

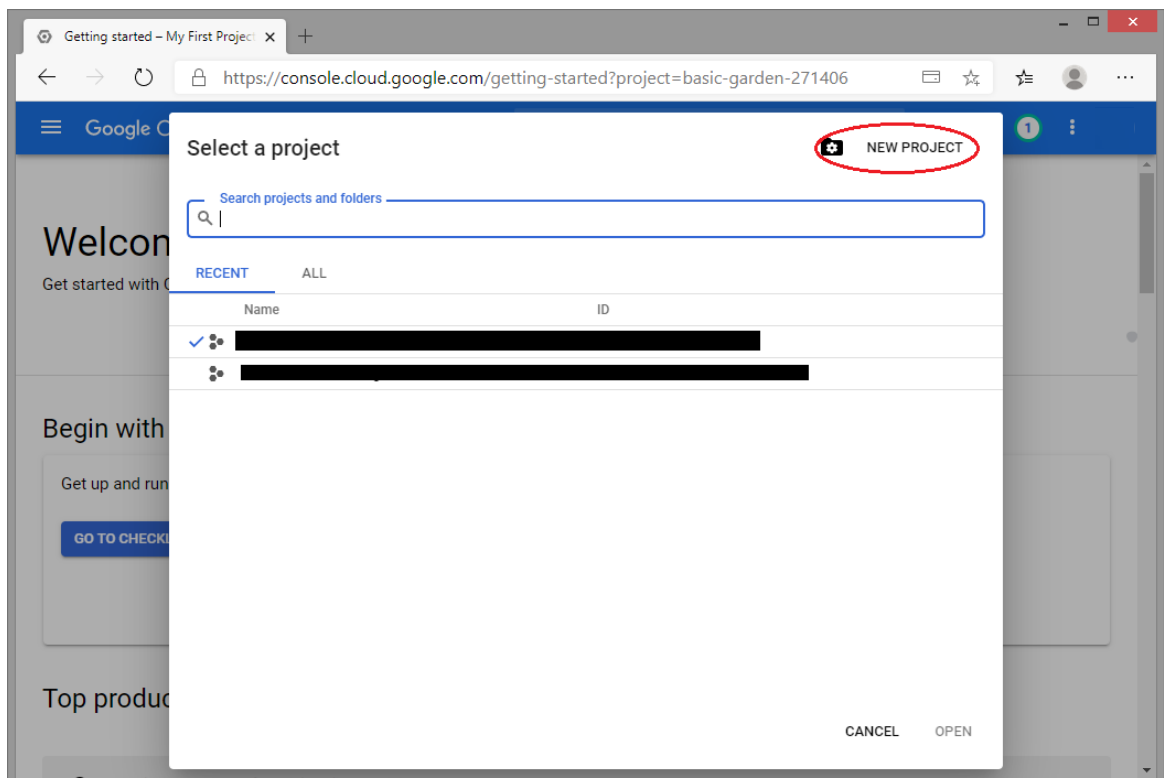
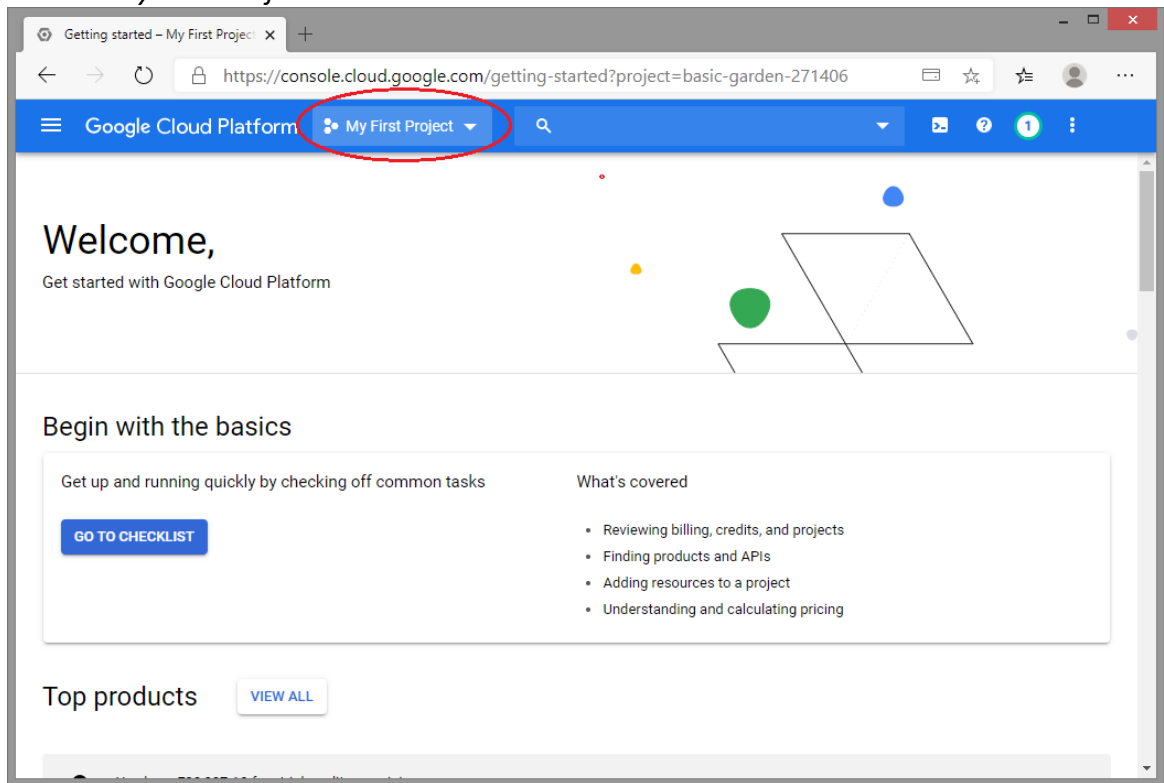


- On the "Sign-up" page, step 2 of 2, we'll need to enter payment profile details. A charge of ₹1 will be applied to your card, which will then be refunded. You will receive a \$300 credit, valid for one year, to use on Google Cloud services. After the first year, billing will not start automatically—charges will only apply with your consent.

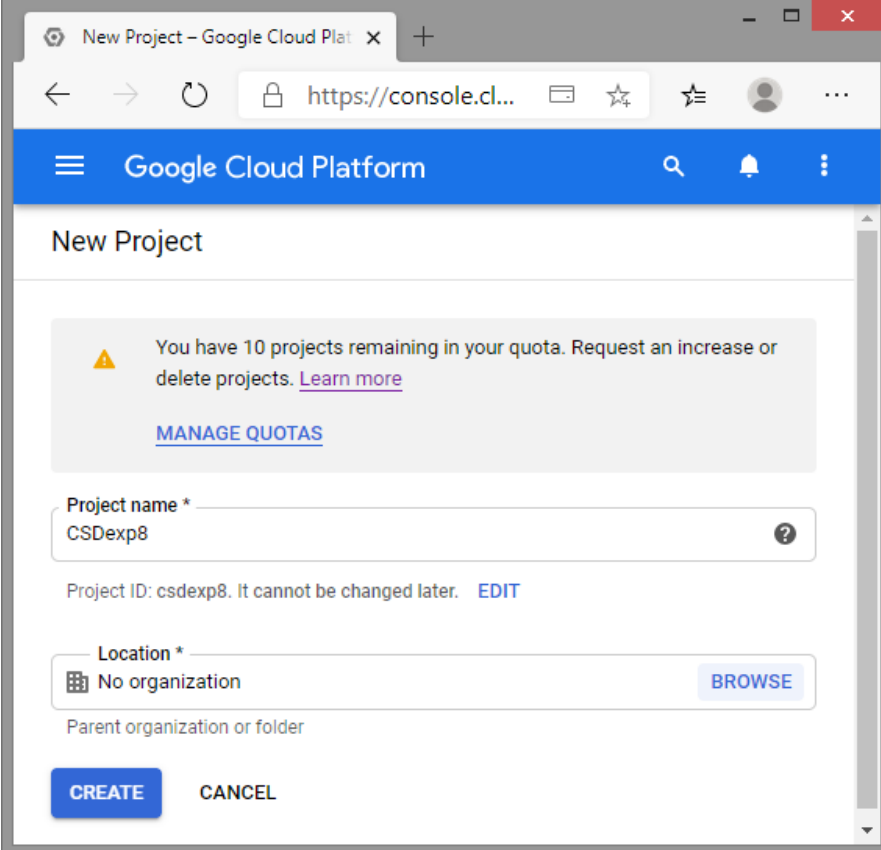
4.



5. Click on *My First Project* and then *NEW PROJECT*.

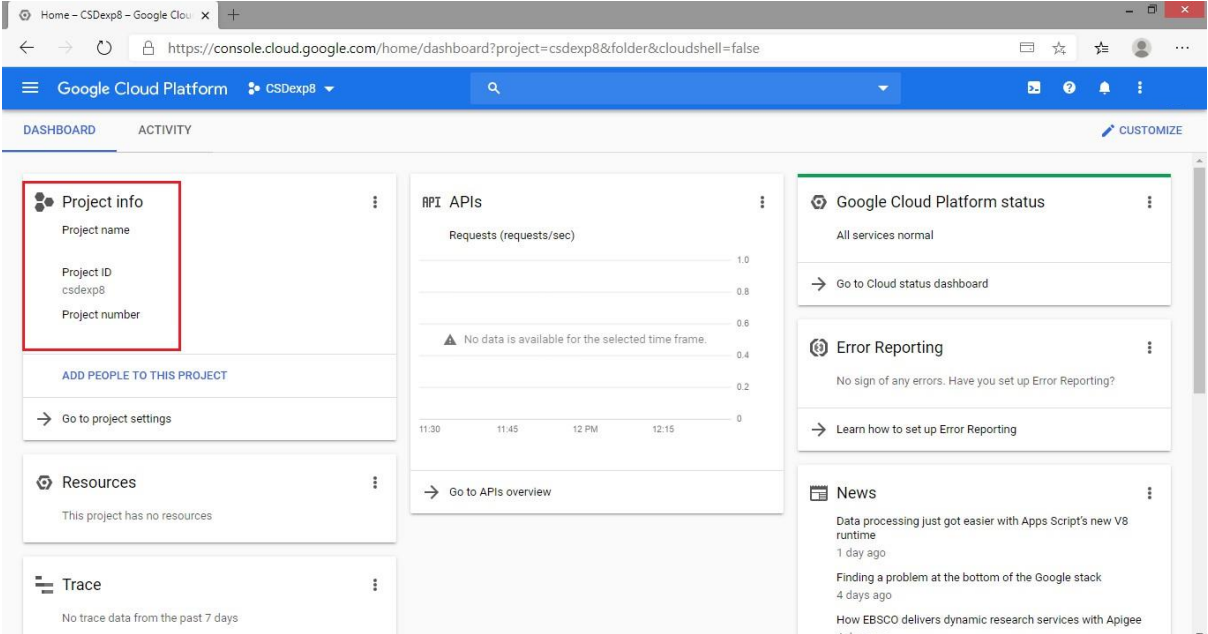


6. Provide Project name, this part will be unique. Location can be *No organization*.



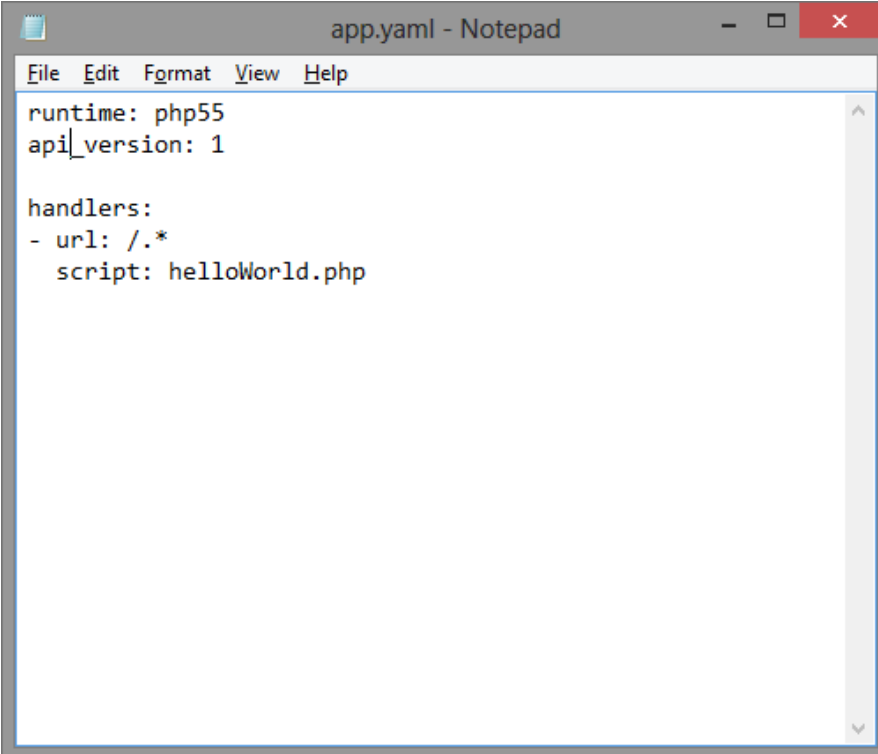
The screenshot shows the 'New Project' page in the Google Cloud Platform console. The browser address bar shows 'https://console.cl...'. The page has a blue header with the Google Cloud Platform logo and navigation icons. Below the header, the title 'New Project' is displayed. A warning message states: 'You have 10 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)'. Below this is a link 'MANAGE QUOTAS'. The 'Project name' field is filled with 'CSDexp8' and has a help icon. Below it, the 'Project ID' is 'csdexp8' with a note 'It cannot be changed later.' and an 'EDIT' link. The 'Location' field is set to 'No organization' with a 'BROWSE' button. Below this is the text 'Parent organization or folder'. At the bottom are 'CREATE' and 'CANCEL' buttons.

7. After Google cloud creates new project as per name specified in previous step, it opens up project home, showing dashboard. Highlighted part will be unique.



The screenshot shows the project dashboard for 'CSDexp8' in the Google Cloud Platform console. The browser address bar shows 'https://console.cloud.google.com/home/dashboard?project=csdexp8&folder&cloudshell=false'. The page has a blue header with the Google Cloud Platform logo and navigation icons. Below the header, the title 'CSDexp8' is displayed. The dashboard is divided into several sections: 'Project info' (highlighted with a red box) showing 'Project name', 'Project ID: csdexp8', and 'Project number'; 'Resources' showing 'This project has no resources'; 'Trace' showing 'No trace data from the past 7 days'; 'API APIs' showing 'Requests (requests/sec)' and a graph; 'Google Cloud Platform status' showing 'All services normal'; 'Error Reporting' showing 'No sign of any errors. Have you set up Error Reporting?'; and 'News' showing several articles. The 'Project info' section is highlighted with a red box.

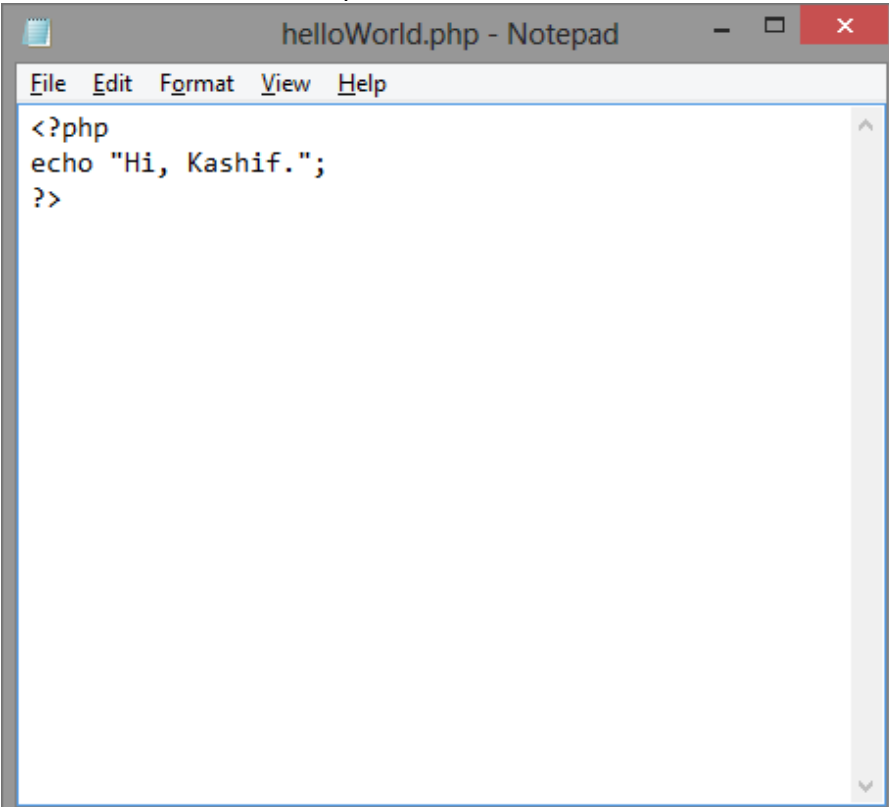
8. Create a new configuration file *app.yaml*. yaml file contains information about your app's code, such as the runtime and the latest version identifier. Each service in your app has its own app. yaml file, which acts as a descriptor for its deployment.



```
runtime: php55
api_version: 1

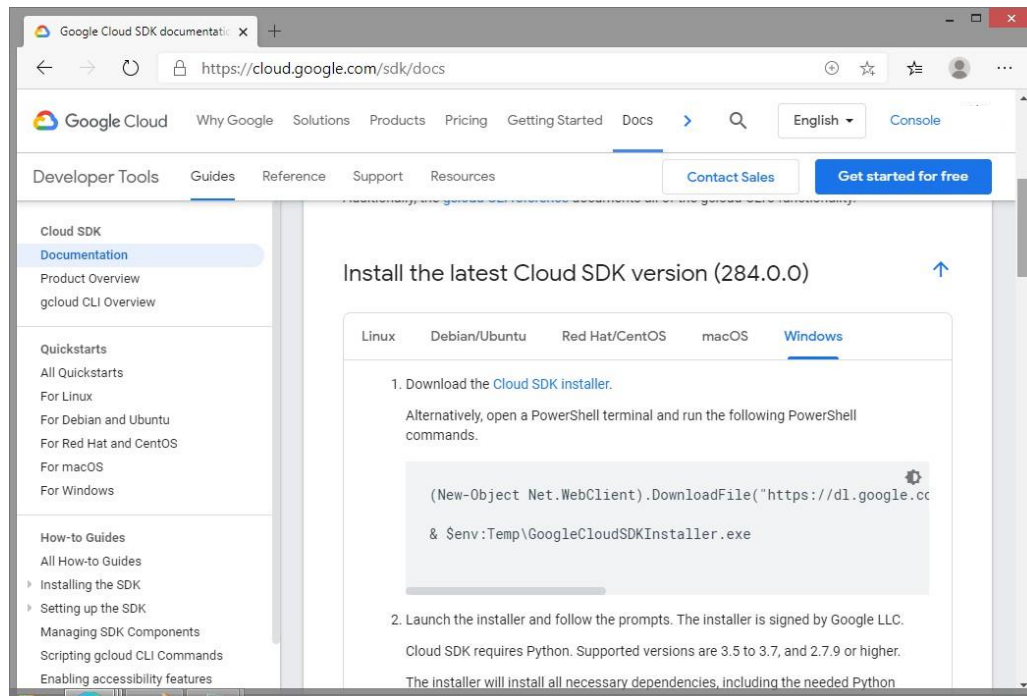
handlers:
- url: /*
  script: helloWorld.php
```

9. Create a PHP code to upload and run.

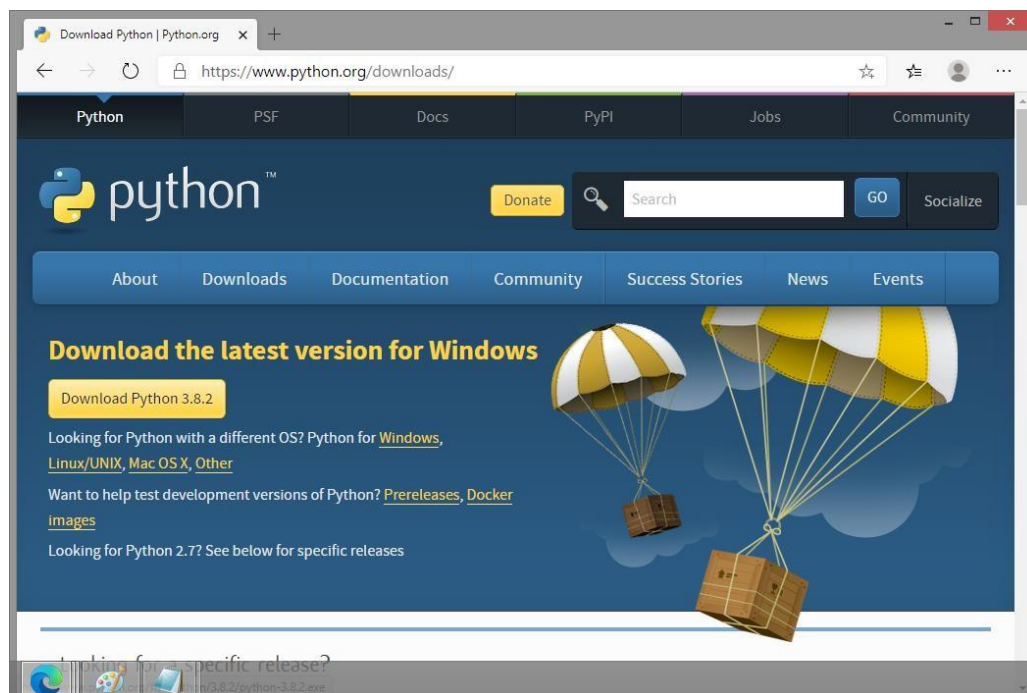


```
<?php
echo "Hi, Kashif.";
?>
```

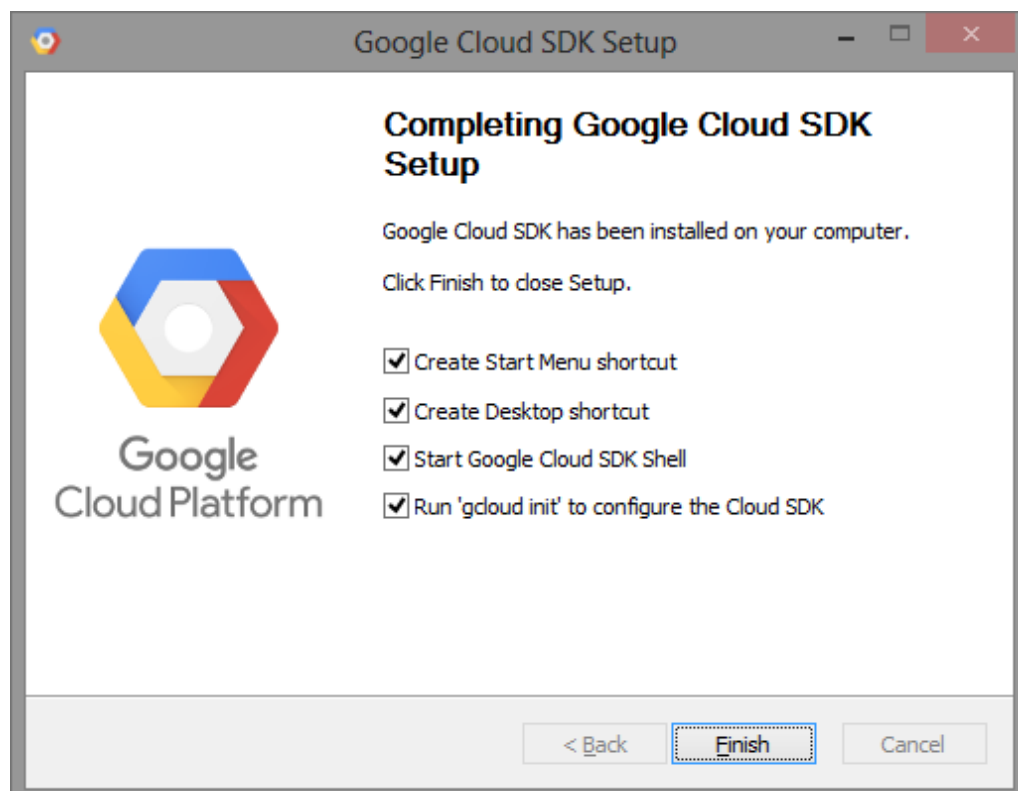
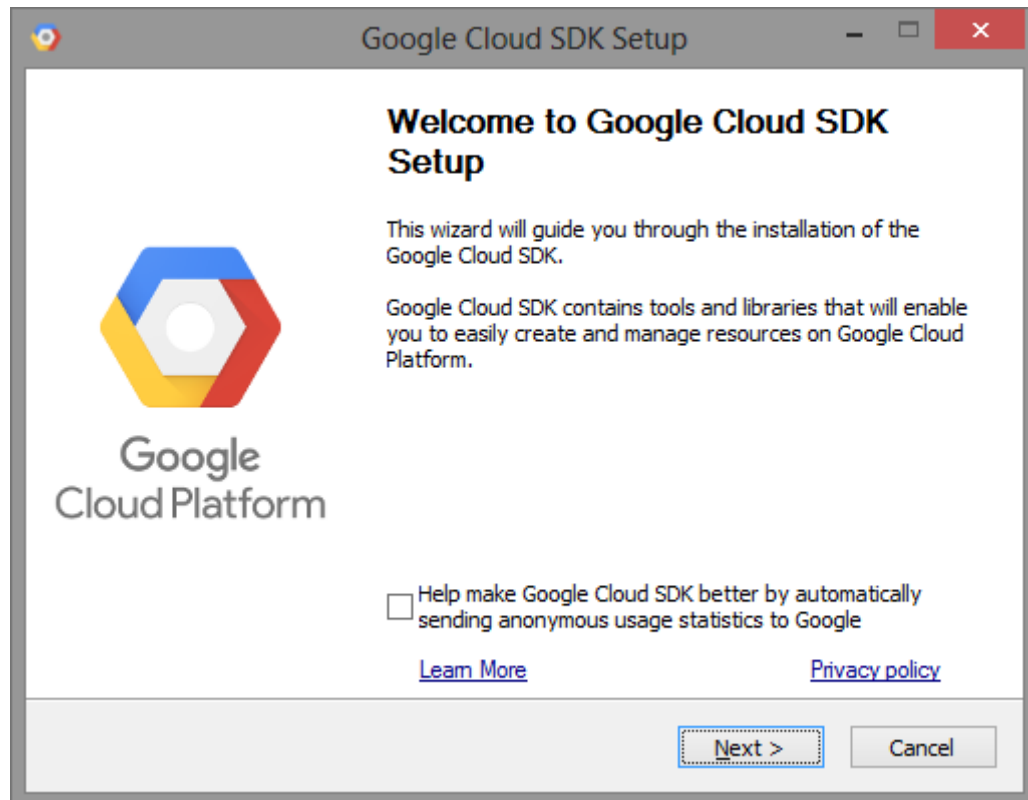
10. In order to deploy and run the PHP code on Google cloud platform, we have to visit <https://cloud.google.com/sdk/docs> to download latest *Google Cloud SDK* and to know how to install it.



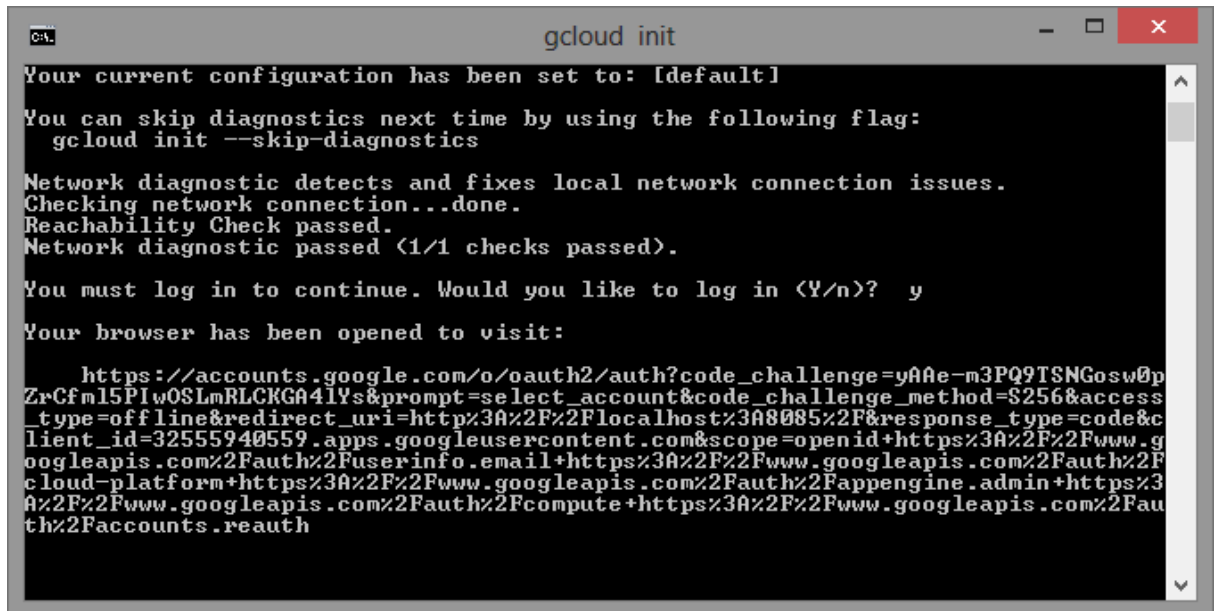
11. This SDK will also require PHP installed on machine, hence download latest PHP from <https://www.python.org/downloads/> and install same.



12. After installation of PHP, open Google cloud SDK installer. It will take some time to download and install *SDK from Google Server*. At end of installation check *Start Google Cloud SDK Shell* and Run '*gcloud init*' to configure the Cloud SDK.



13. Previous step will open up command prompt with *gcloud init* command running automatically. It will ask you to login using Google account on which you have joined Google Cloud Platform. After successful login web browser page of *cloud.google.com* will show *You are now authenticated with Google Cloud SDK*.



```
gcloud init

Your current configuration has been set to: [default]

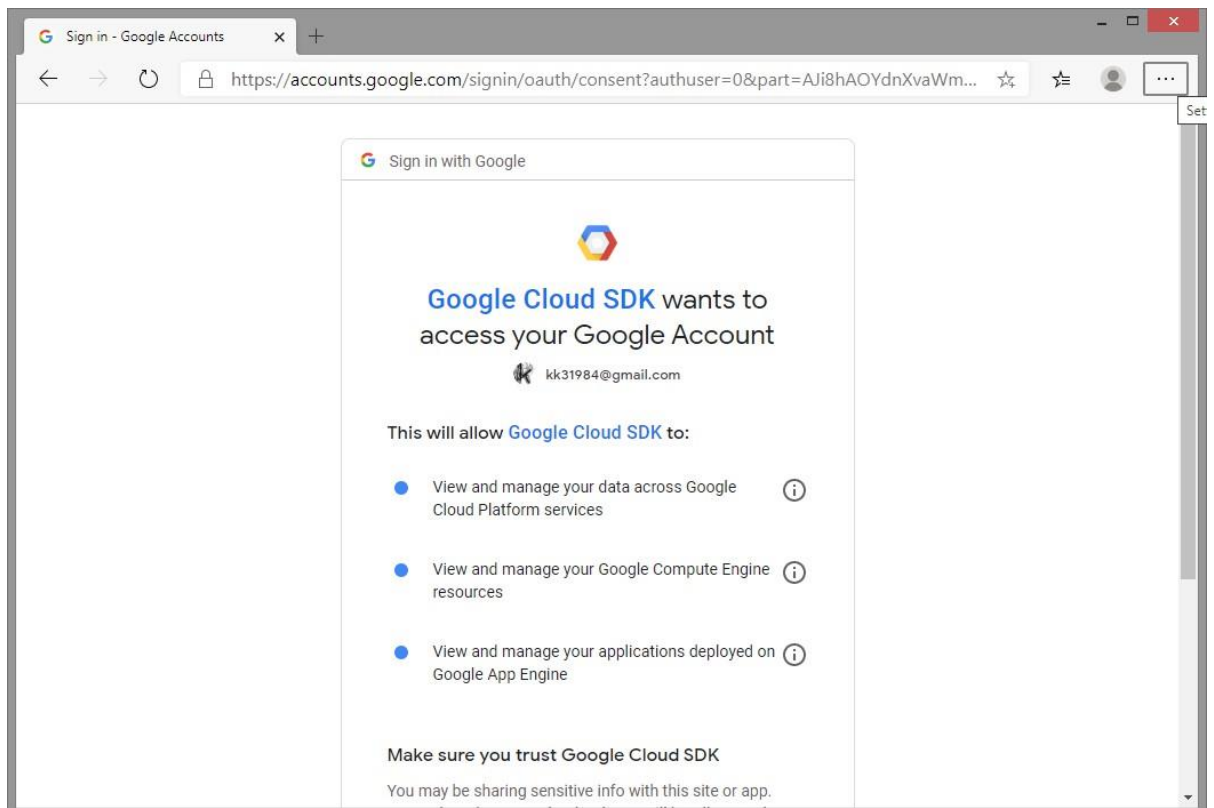
You can skip diagnostics next time by using the following flag:
  gcloud init --skip-diagnostics

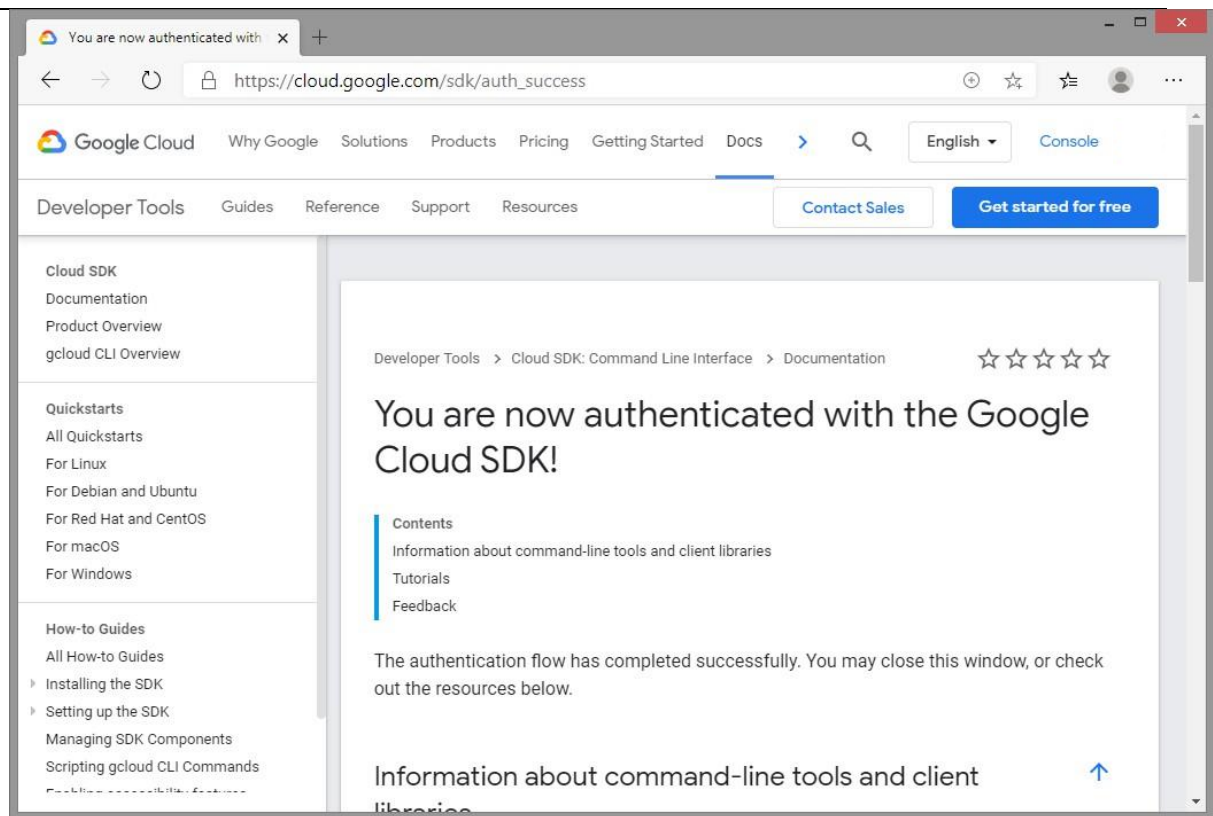
Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

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

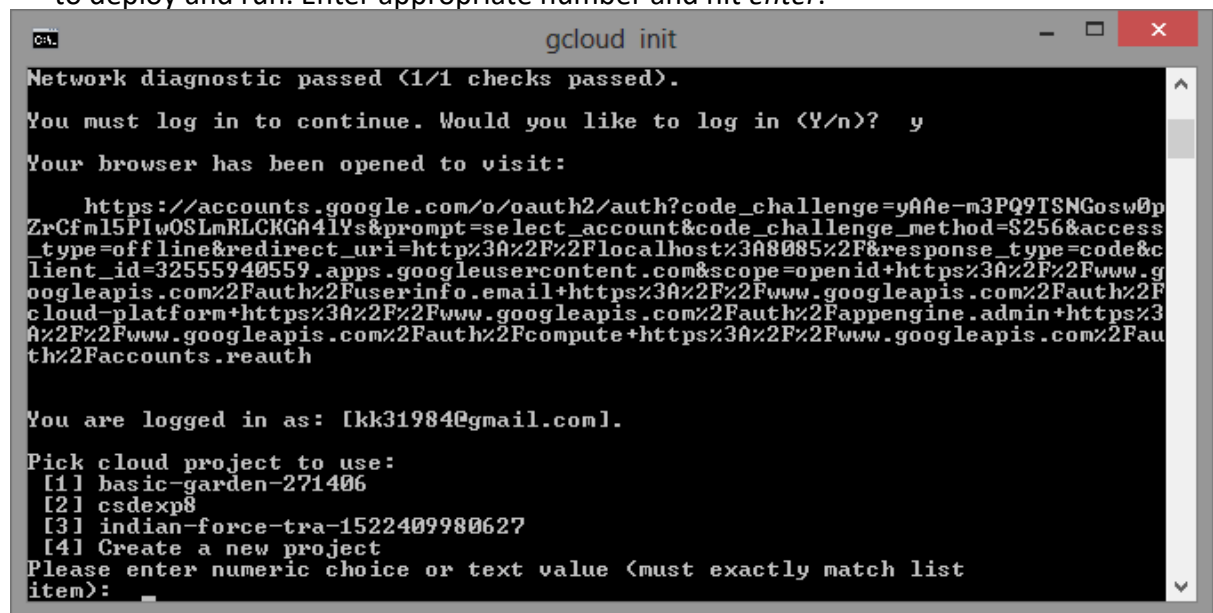
Your browser has been opened to visit:

  https://accounts.google.com/o/oauth2/auth?code_challenge=yAAe-m3PQ9TSNGosw0p
  ZrCfm15PIwOSLmRLCKGA4lYs&prompt=select_account&code_challenge_method=S256&access
  _type=offline&redirect_uri=http%3A%2F%2Flocalhost%3A8085%2F&response_type=code&c
  lient_id=32555940559.apps.googleusercontent.com&scope=openid+https%3A%2F%2Fwww.g
  oogleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2F
  cloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3
  A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fau
  th%2Faccounts.reauth
```

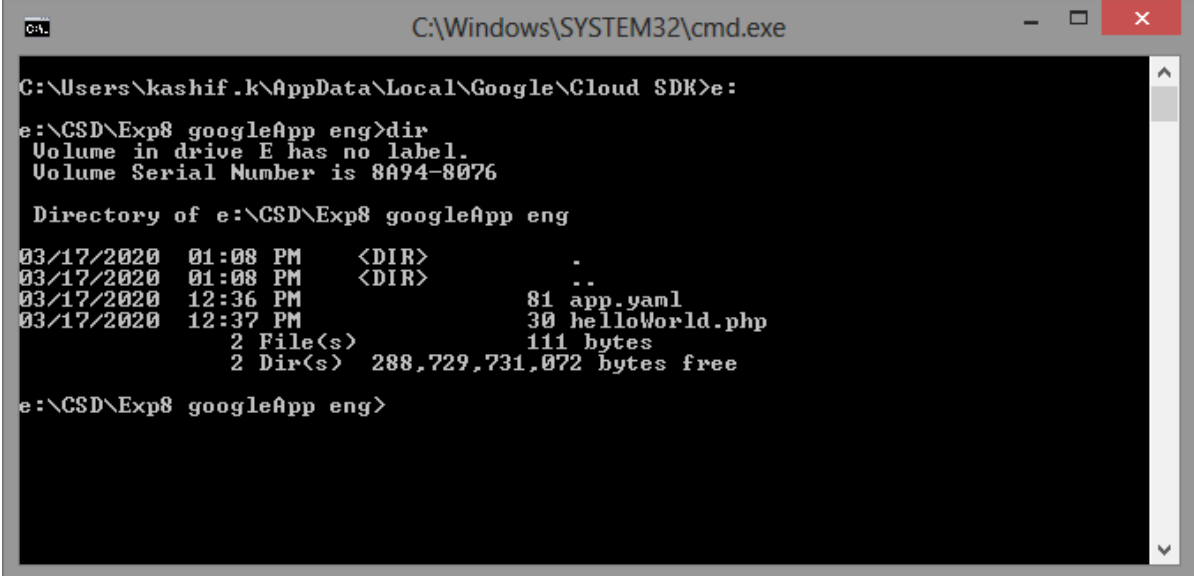




14. In command prompt, running in background will ask you to select project you want to deploy and run. Enter appropriate number and hit *enter*.



15. Change directory to folder where PHP and YAML file is residing.



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

C:\Users\kashif.k\AppData\Local\Google\Cloud SDK>e:

e:\CSD\Exp8 googleApp eng>dir
Volume in drive E has no label.
Volume Serial Number is 8A94-8076

Directory of e:\CSD\Exp8 googleApp eng

03/17/2020  01:08 PM    <DIR>          .
03/17/2020  01:08 PM    <DIR>          ..
03/17/2020  12:36 PM                81 app.yaml
03/17/2020  12:37 PM                30 helloWorld.php
                2 File(s)                111 bytes
                2 Dir(s)  288,729,731,072 bytes free

e:\CSD\Exp8 googleApp eng>
```

16. Type `gcloud app deploy` and select region of Google Data Center where you want to deploy your app, press 5 and press `Enter` for `asia-south1`, i.e. *Mumbai*. Press `Y` to continue with deployment. Result will show URL to launch your GoogleApp. Alternatively you can type `gcloud app browse` to open your App in browser. Further you can make change in PHP code, or add more PHP code and repeat step 15.

```
C:\Windows\SYSTEM32\cmd.exe
e:\CSD\Exp8 googleApp eng>gcloud app deploy
You are creating an app for project [csdexp8].
WARNING: Creating an App Engine application for a project is irreversible and the
region cannot be changed. More information about regions is at
<https://cloud.google.com/appengine/docs/locations>.

Please choose the region where you want your App Engine application
located:

[1] asia-east2      (supports standard and flexible)
[2] asia-northeast1 (supports standard and flexible)
[3] asia-northeast2 (supports standard and flexible)
[4] asia-northeast3 (supports standard and flexible)
[5] asia-south1     (supports standard and flexible)
[6] australia-southeast1 (supports standard and flexible)
[7] europe-west     (supports standard and flexible)
[8] europe-west2    (supports standard and flexible)
[9] europe-west3    (supports standard and flexible)
[10] europe-west6   (supports standard and flexible)
[11] northamerica-northeast1 (supports standard and flexible)
[12] southamerica-east1 (supports standard and flexible)
[13] us-central     (supports standard and flexible)
[14] us-east1       (supports standard and flexible)
[15] us-east4       (supports standard and flexible)
[16] us-west2       (supports standard and flexible)
[17] us-west3       (supports standard and flexible)
[18] cancel

Please enter your numeric choice: 5

Creating App Engine application in project [csdexp8] and region [asia-south1]...
..done.
Services to deploy:

descriptor: [e:\CSD\Exp8 googleApp eng\app.yaml]
source:     [e:\CSD\Exp8 googleApp eng]
target project: [csdexp8]
target service: [default]
target version: [20200317t131145]
target url:   [https://csdexp8.appspot.com]

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

Beginning deployment of service [default]...

= Uploading 2 files to Google Cloud Storage =

File upload done.
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://csdexp8.appspot.com]

You can stream logs from the command line by running:
$ gcloud app logs tail -s default

To view your application in the web browser run:
$ gcloud app browse

e:\CSD\Exp8 googleApp eng>gcloud app browse
Opening [https://csdexp8.appspot.com] in a new tab in your default browser.
```

