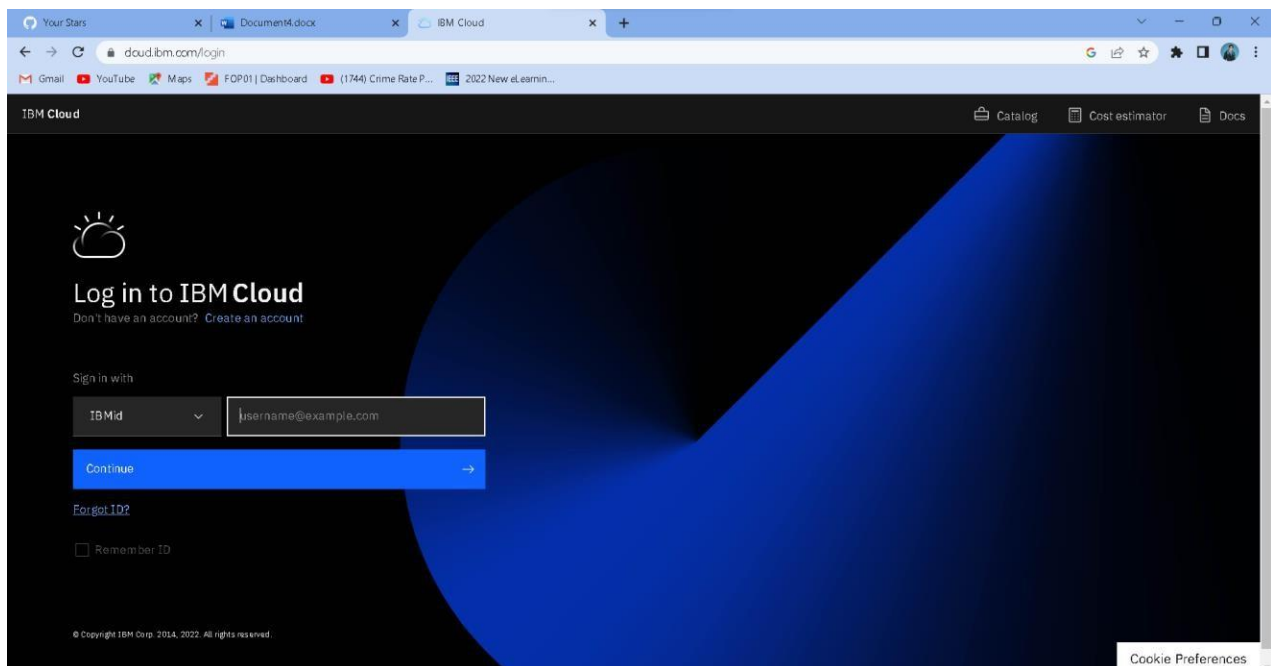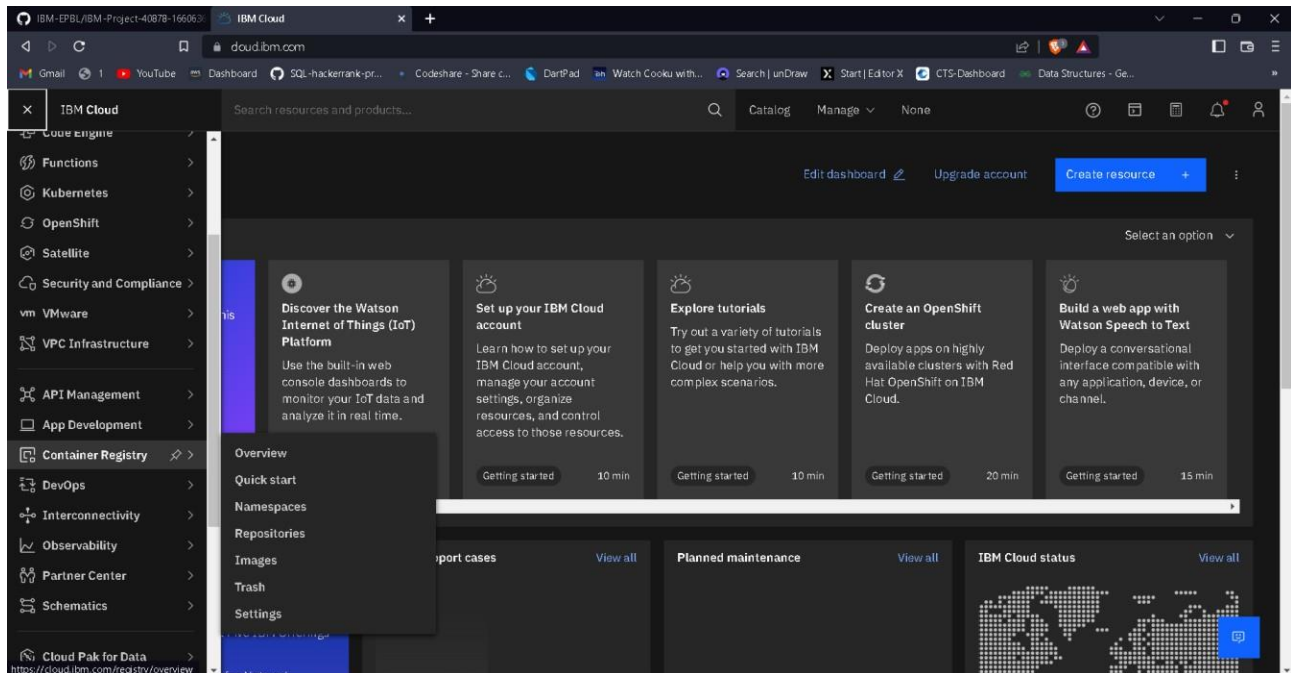| Team ID	PNT2022TMID02918

SETTING UP AN APPLICATION ENVIRONMENT
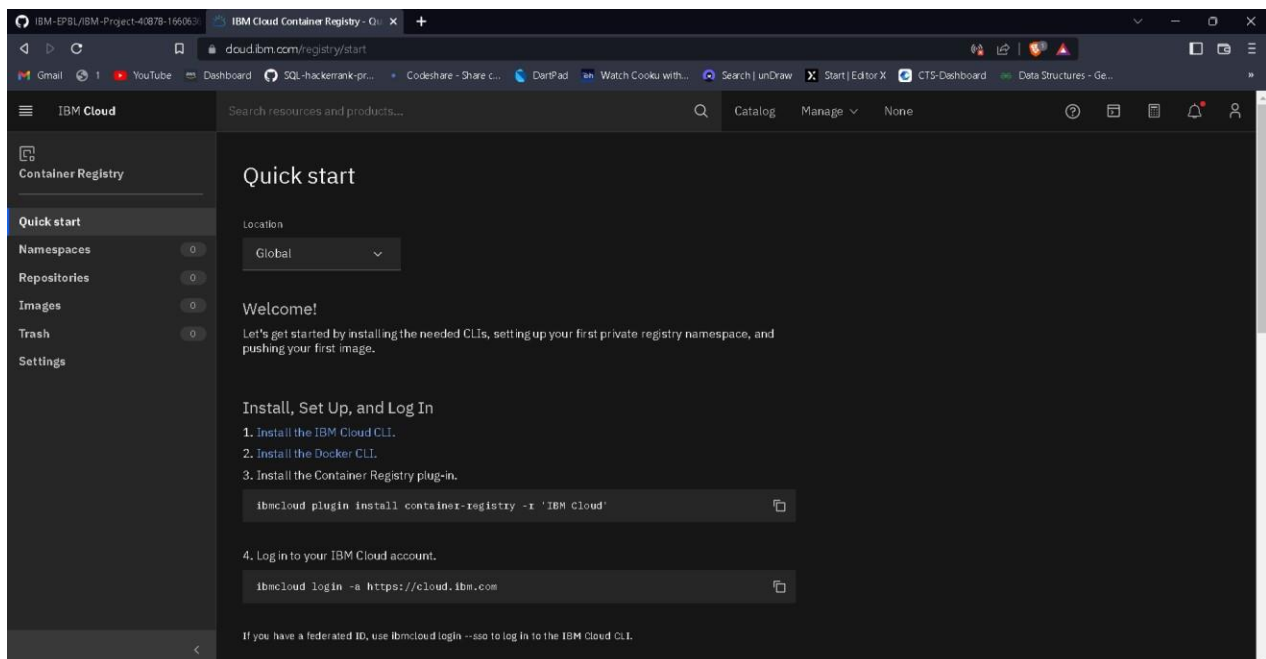
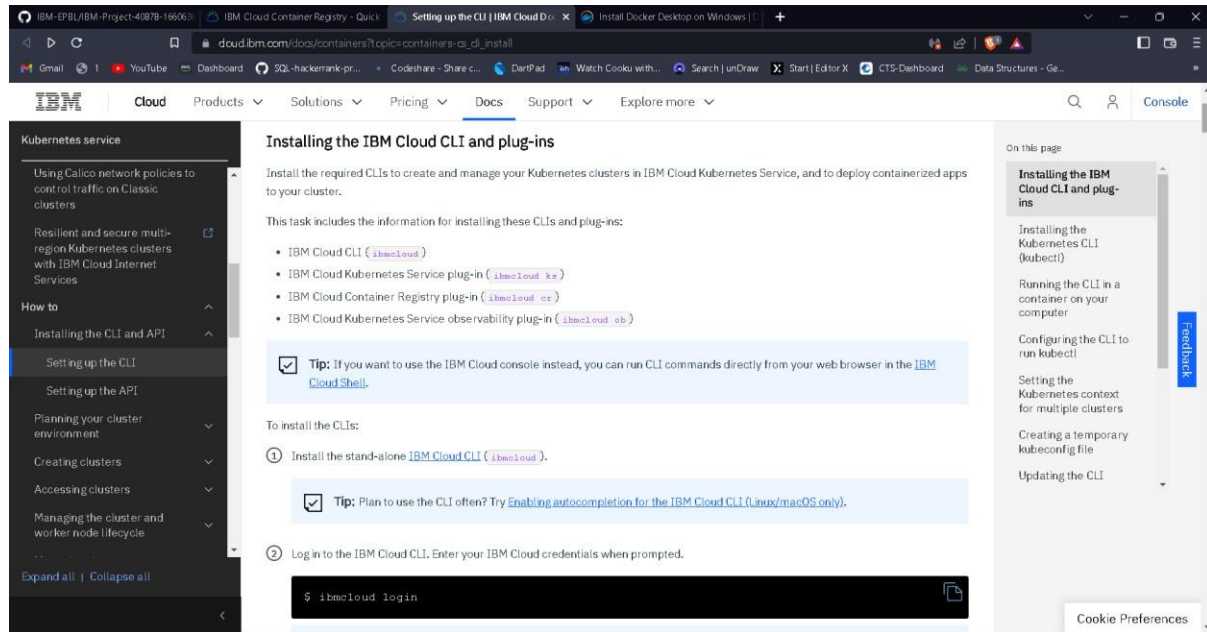## 1. IBM CLOUD CLI INSTALLATION:

Step1: Log in to the IBM cloud

Step 2: Select container registry

Step3: Select QuickStart to open container registry and click on installIBM Cloud CLI
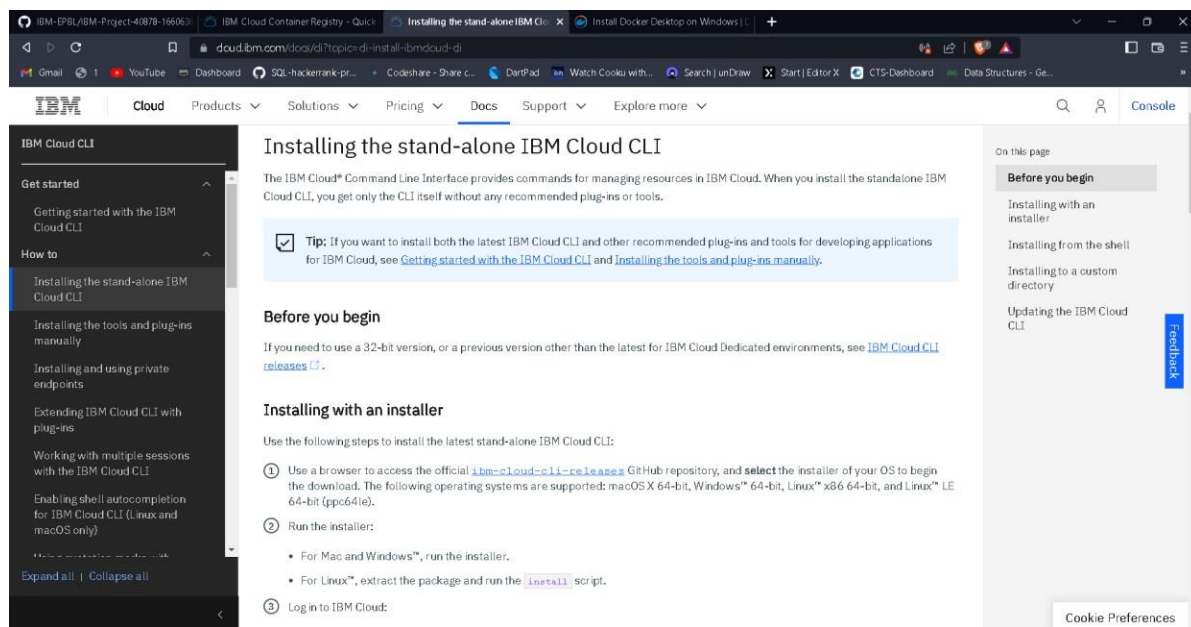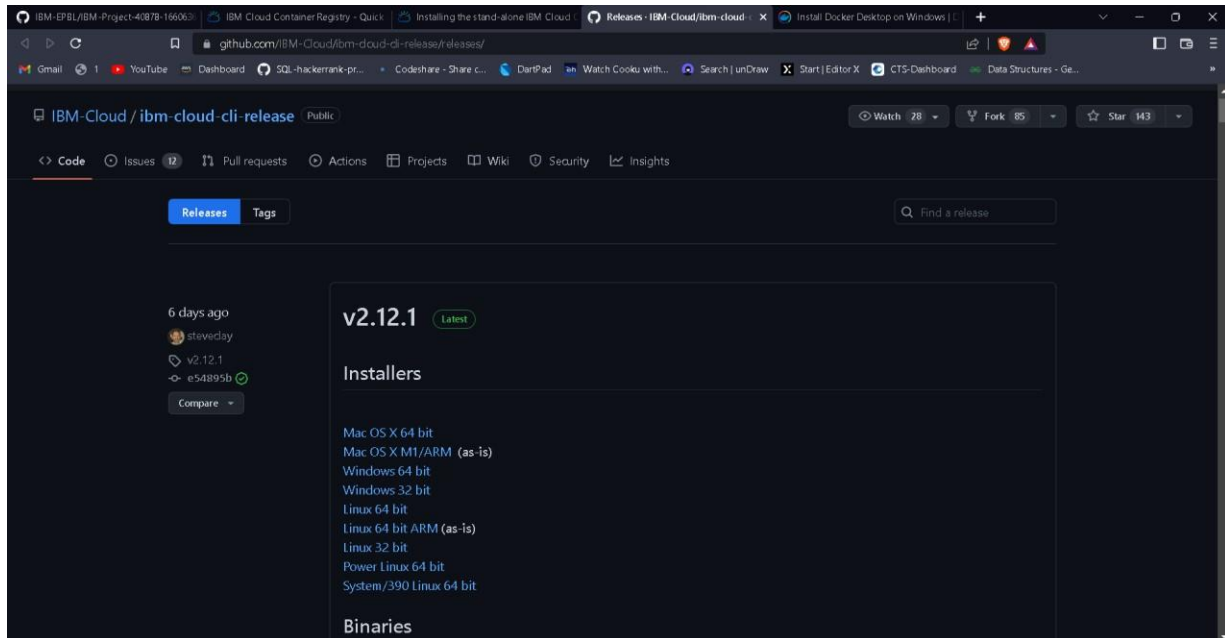
Step 4: Click on IBM Cloud CLI

Step 5: And then, Click on IBM Cloud CLI releases

Step 6: After that, the GitHub page will open and download the IBMCLI installer by selecting as per your system required installer.

Step 7: After the download, Click the downloaded setup to run theinstaller.
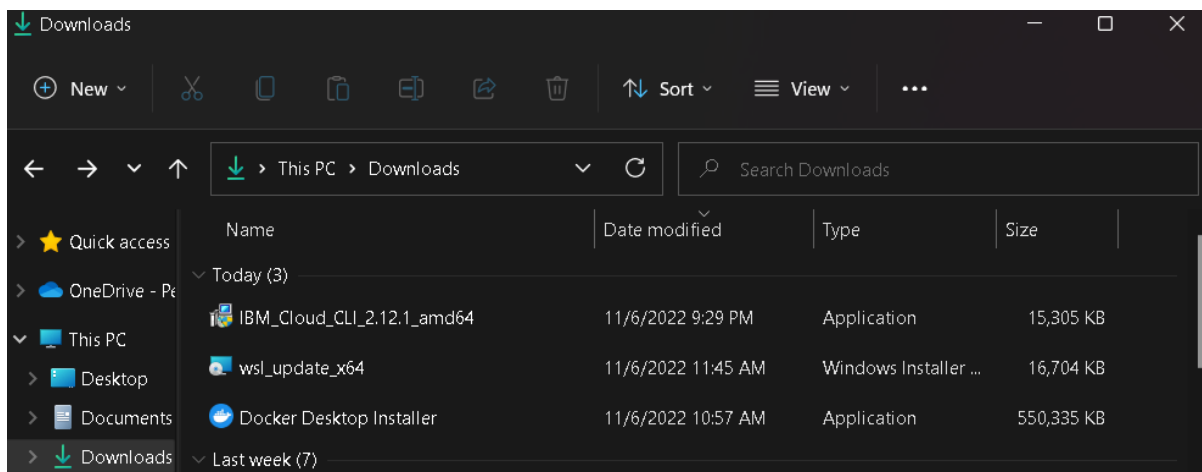
Step 8: After the installation set environment variable and then openCMD (Windows). Type this command to login in IBM cloud

"ibmcloud login"
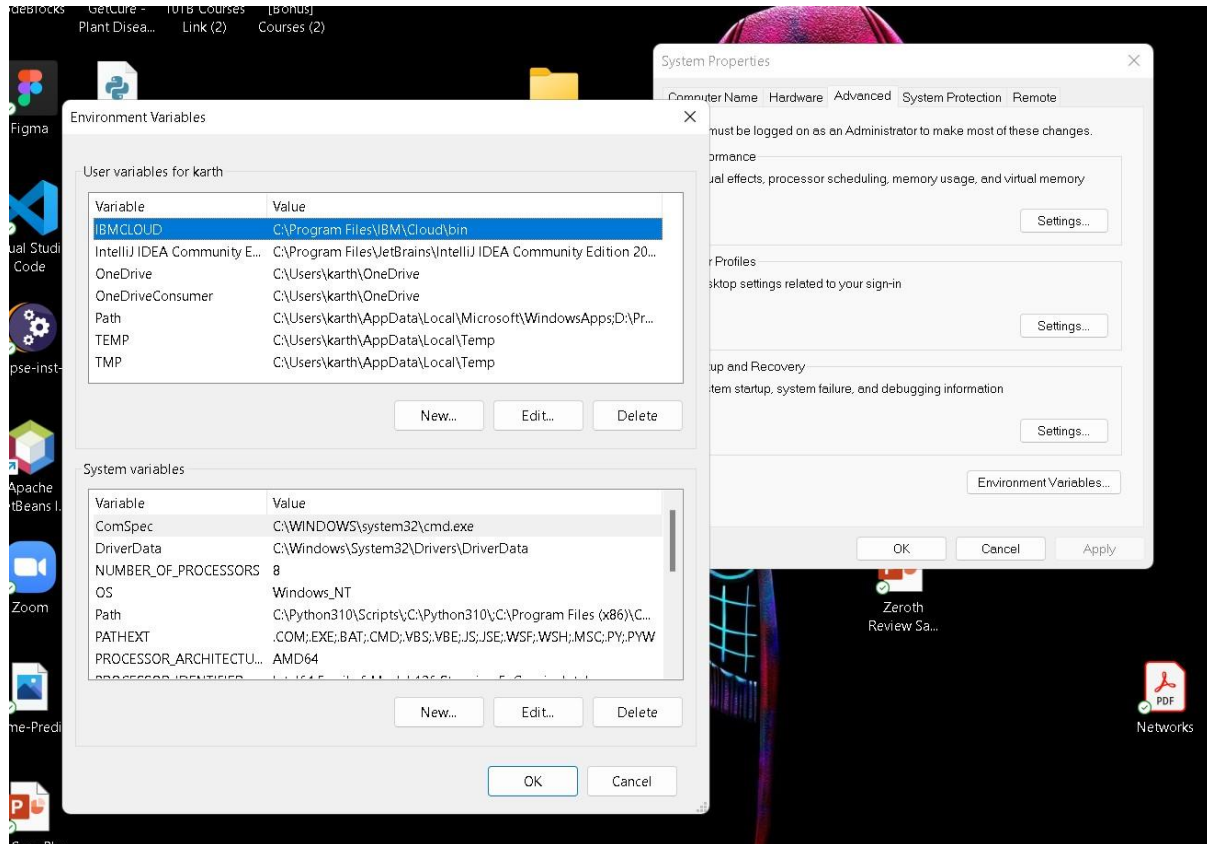
In the variable name, name it as "IBM Cloud" and in variable valuethe path location of the IBM.

Step 9: Enter your IBM cloud email id and password, then it will authenticate and signals "OK". The number of regions will display,select one of them for your targeted account.


```
C:\Users\karth>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: us-east

Email> donaldvj17@gmail.com

Password>
Authenticating...
OK

Targeted account None (3de90de6135b45488710630b2d0e4372)


API endpoint:        https://cloud.ibm.com
Region:              us-east
User:                donaldvj17@gmail.com
Account:             None (3de90de6135b45488710630b2d0e4372)
Resource group:      No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
```

Step 10: Then copy the plugin command in your container registry(where the command displayed in your container registry which isopened on web browser) and paste and run it on cmd.

"ibmcloud plugin install container-registry -r"

```
Command Prompt                                                                    —    □    ×

NAME:
  install - Install CLI plug-in

USAGE:
  ibmcloud plugin install (PLUGIN_NAME | [-a, --all]) [-r REPO_NAME] [-v VERSION] [-f] [-q, --quiet]
  ibmcloud plugin install LOCAL-PATH/TO/PLUGIN | URL [-f] [-q, --quiet]

If no repository is specified, the command uses the official plug-in repository 'IBM Cloud'.
If installing a single plugin and no version is specified, the command selects the latest available version to install.
If the '-a, --all' flag is specified, the command installs all latest available plugins in the repository.

EXAMPLE:
  ibmcloud plugin install --all
  ibmcloud plugin install --all -r MyRepo
  ibmcloud plugin install http://example.com/downloads/my-plugin
  ibmcloud plugin install ~/Downloads/my-plugin
  ibmcloud plugin install plugin-echo
  ibmcloud plugin install plugin-echo -v 1.0.0
  ibmcloud plugin install plugin-echo -r MyRepo -v ~1.2
  ibmcloud plugin install plugin-echo -v ">=0.3, <0.6" -f

OPTIONS:
  -a, --all     Install all latest available plugins in repository
  -r value      Repo name where the plug-in binary is located
  -v value      Version of the plug-in to be installed. Accepts specific semantic version or constraint. Only applicable
when installing a single plugin.
  -f            Force installation of plugin(s) without confirmation
  -q, --quiet   Suppress verbose output
```
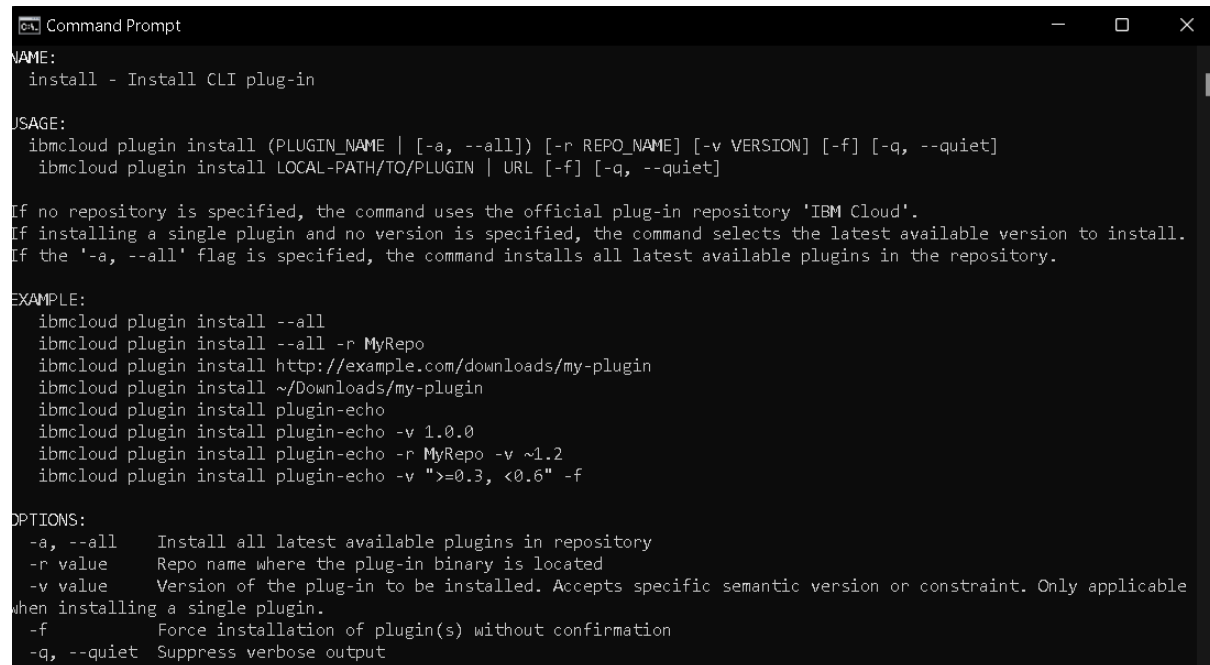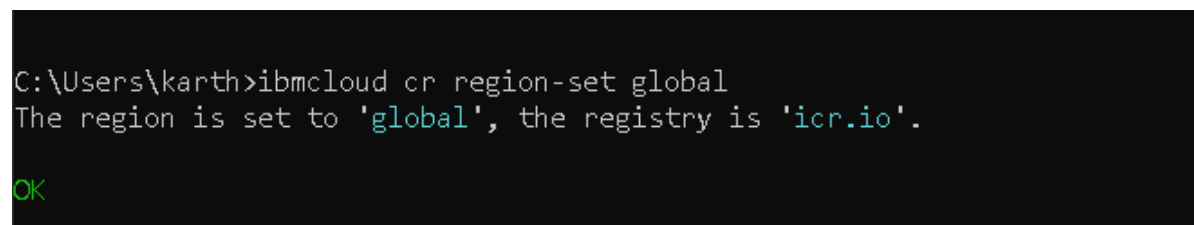
Step 11: Set your region to global."ibmcloud cr region- set global"

```
C:\Users\karth>ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.

OK
```
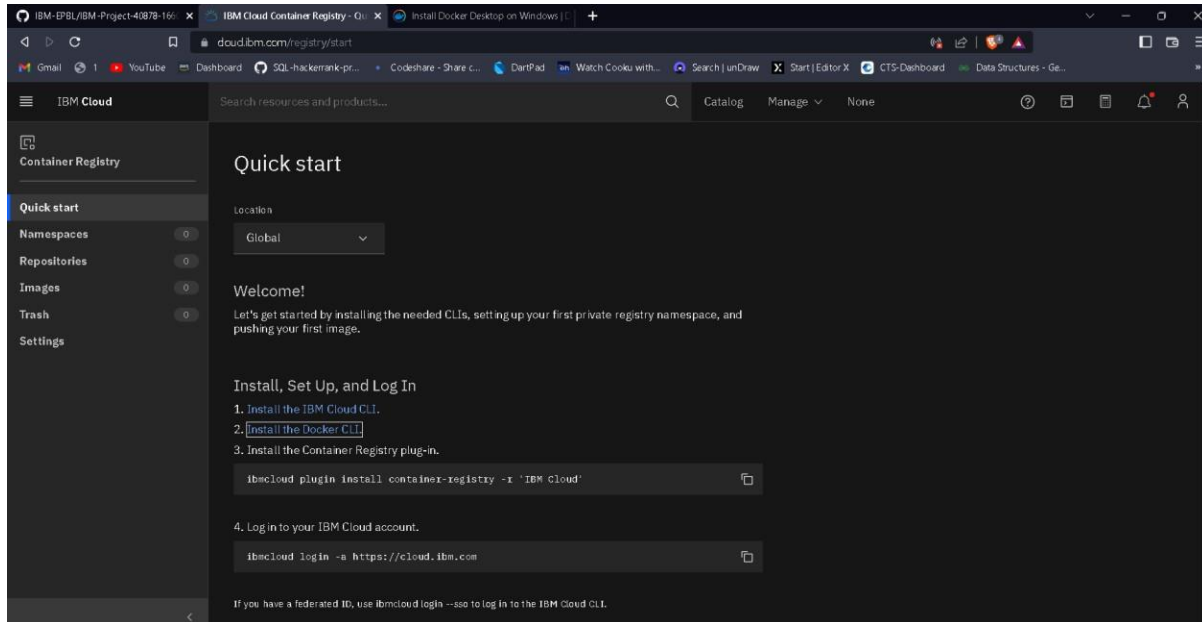
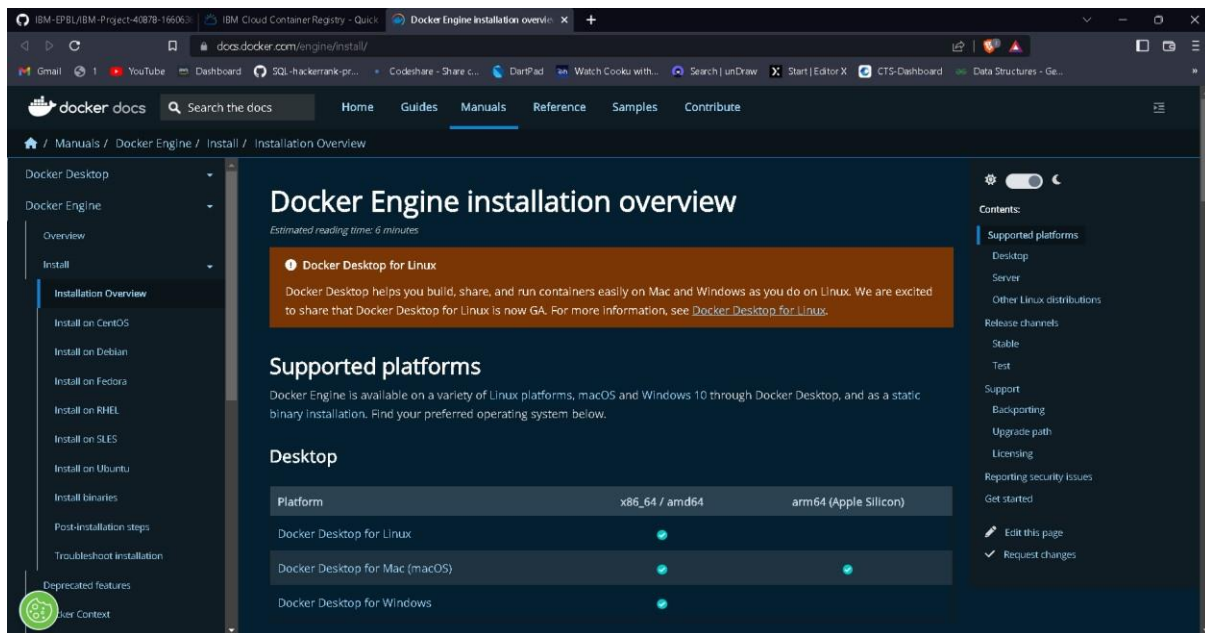# Step 12: Create namespace in your container registry

2. DOCKER CLI INSTALLATION:

Step1: Open container registry in IBM cloud and click on Install DockerCLI.

Step 2: Then, click on required installer for your specified system anddownload it.

Step 3: After the setup download, run the setup and then open it andpush the images, create the repositories.
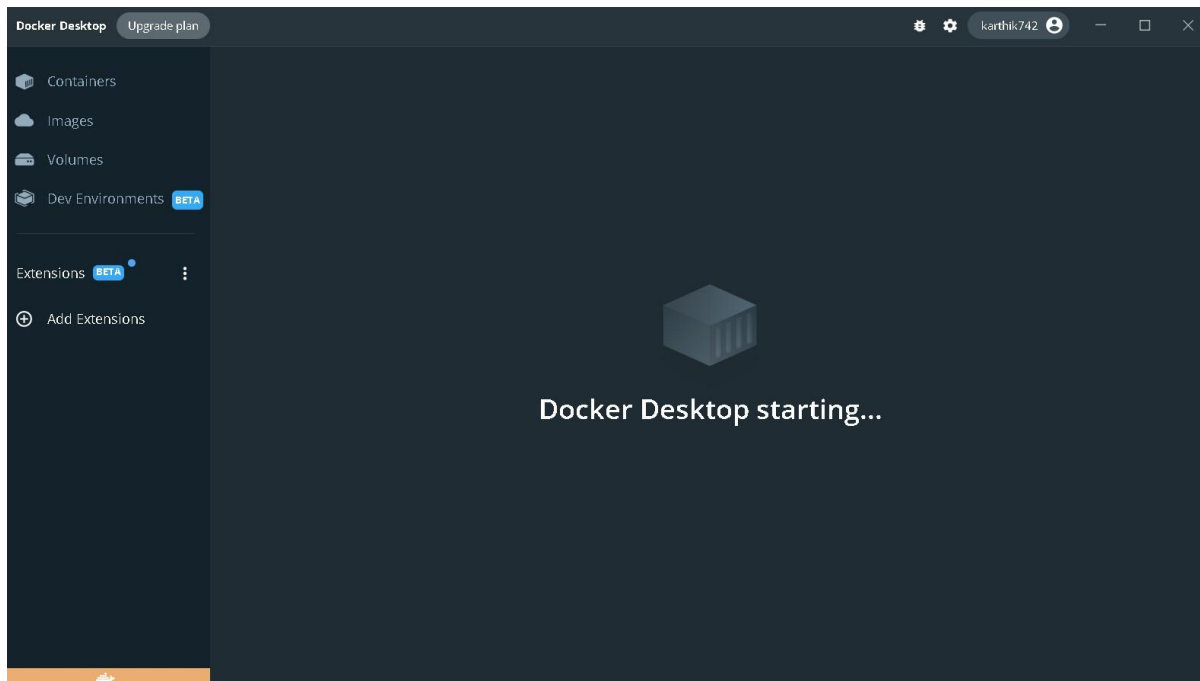
3.IBM CLOUD ACCOUNT CREATION:

Step 1: Search for "ibm.com/academic" in the browser.

Step 2: Enter the mail issued by the academic institution and follow the procedure for entering the details which is provided as video link in yourIBM profile.

Enter your academic institution issued email to begin
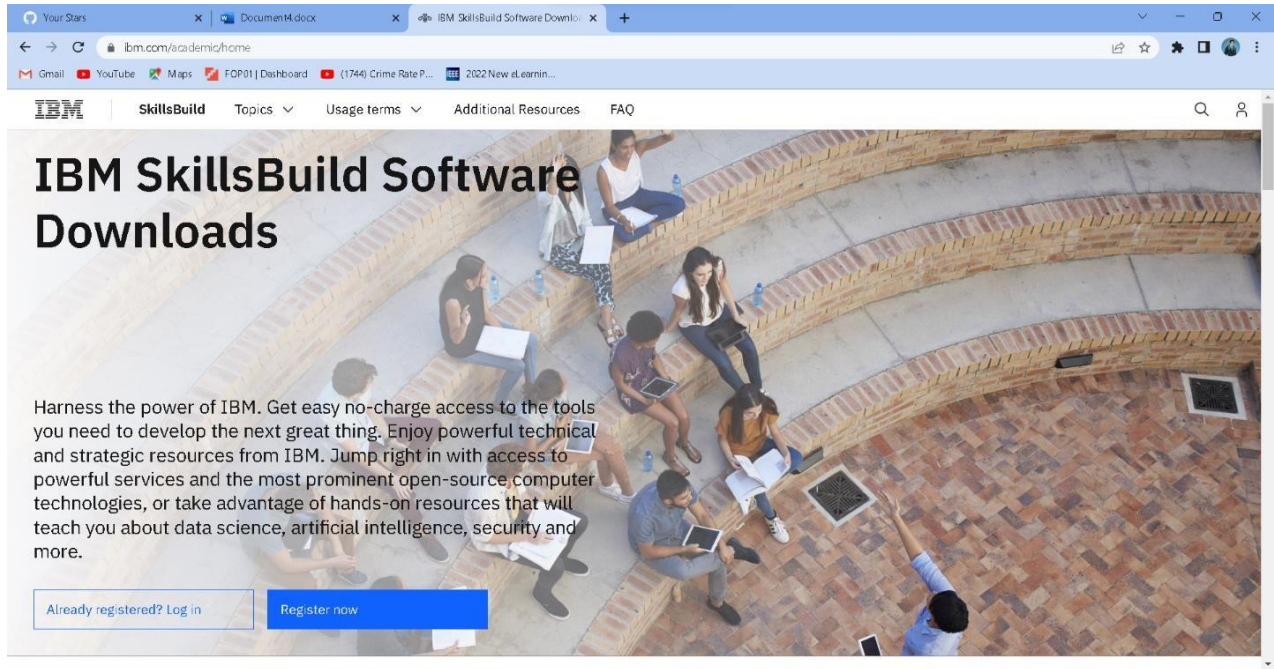
Only the students and faculty of participating academic institutions are eligible to access this website. Please enter your academic institution issued email below to register.

Your academic institution issued email
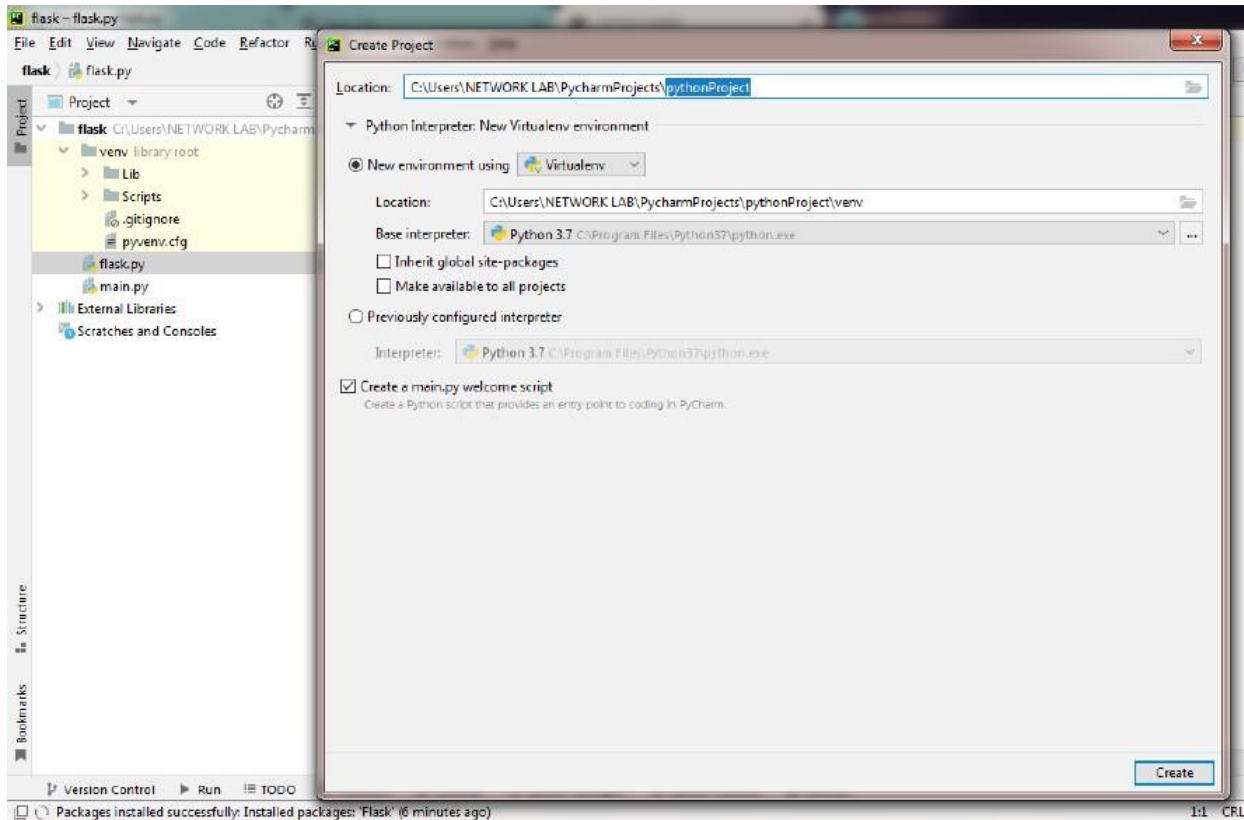
Find answers in our frequently asked questions

Submit

Step 3: After following the procedure that is given in reference video,your IBM cloud account will created.
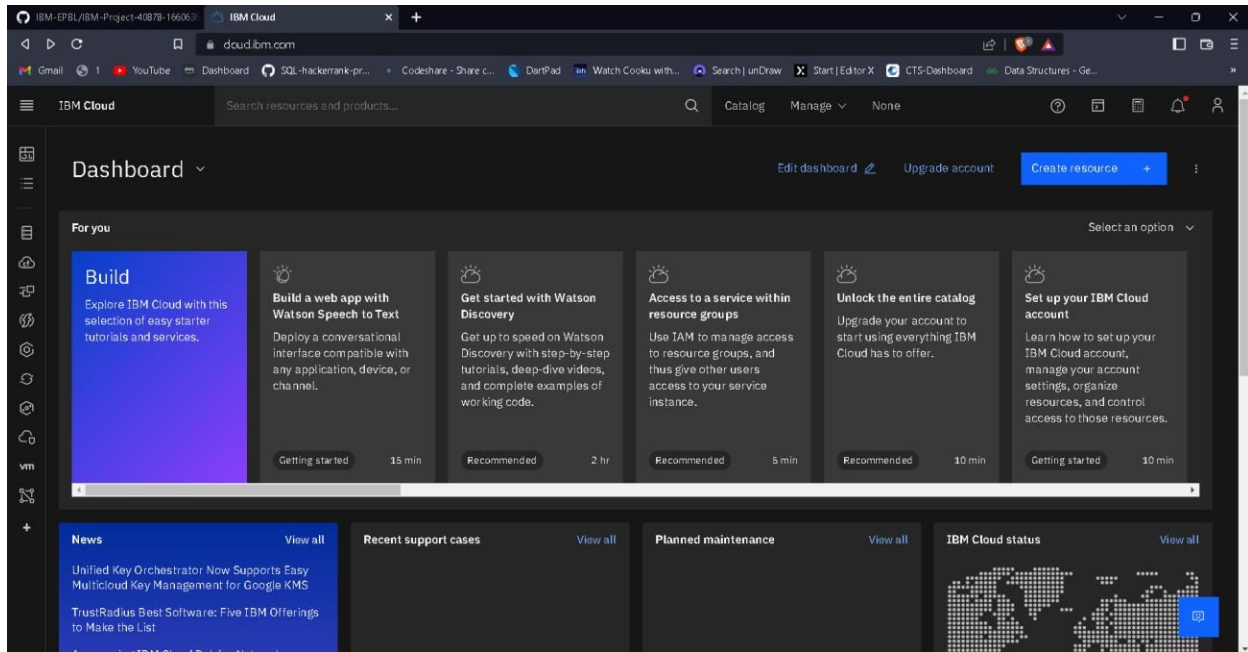
4.CREATING A FLASK PROJECT:

Step1: Open PyCharm in your desktop and create new project folder

Step 2: Enter the following code to create the flask

projectfrom flask import Flask
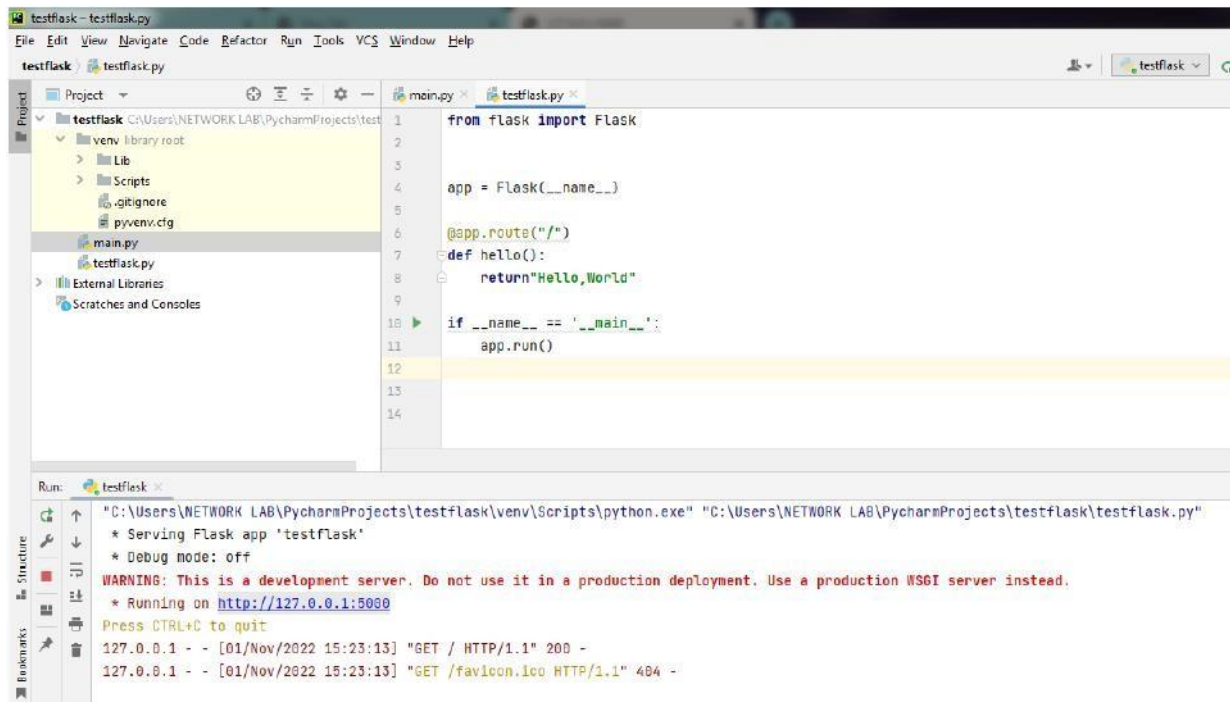
app = Flask(_name_)

@app.route("/")

def hello():

    return"Hello,World

" if_name_ == '_main

___':

```
app. run()
```

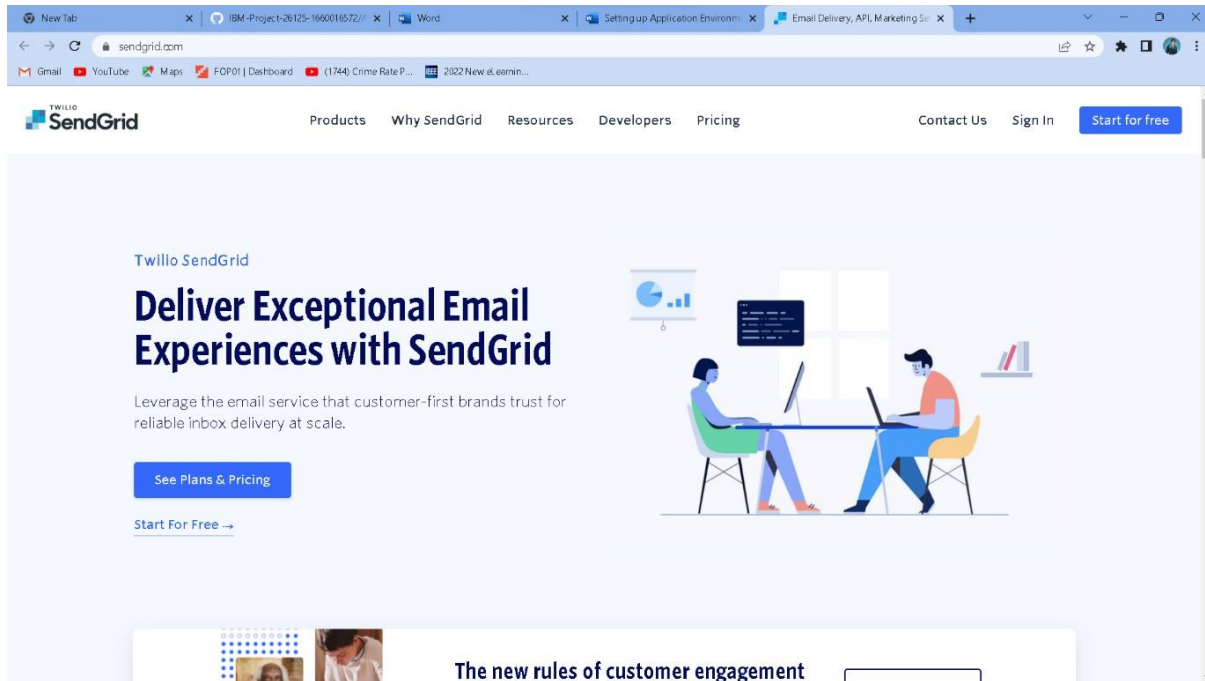Step 3: Then run the code, it will show website link in terminal.

Step 4: By clicking the link in terminal, it will show "Hello World" inthe browser page.

5. SENDGRID ACCOUNT CREATION:

Step1: Search for the SendGrid https://sendgrid.com/

Step 2: Registering new account and account is created.

New Tab   IBM -Project-26125- 1660016572//   Word   Setting up Application Environm   New Account | SendGrid

signup.sendgrid.com/account_details

Gmail   YouTube   Maps   FOP01 | Dashboard   (1744) Crime Rate P...   2022 New eLearnin...

TWILIO
SendGrid

Tell Us About Yourself

This information will help us serve you better.

First Name •   Last Name •

Company Name •   Company Website •

Country Code
USA (+1)   Phone Number

What is your role? •
○ Developer   ○ CEO

○ Marketer   ○ Other

How many emails do you send per month? •
○ 0 to 100,000   ○ 100,000 to 700,000

○ 700,000 to 1,500,000   ○ 1,500,000 to 10,000,000

○ 10,000,000 to 50,000,000   ○ 50,000,000 to 100,000,000

                                    ○ 100,000,000+

How many employees work at your company? •
○ 1 - 500   ○ 1,001 - 5,000