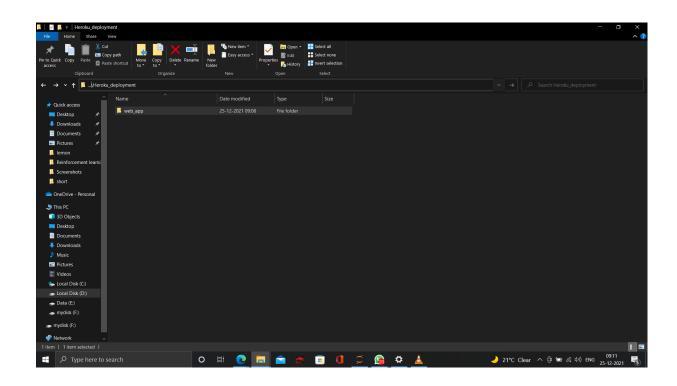
# Streamlit web app deployment on Heroku cloud platform in detail

#### steps:

- · create ready web app
- · create heroku account
- · installing git
- · creating Procfile and stetup.sh
- · creating envirnoment
- · installing required packages on environment
- · running the application again for ensuring any error
- after succssfull runnig creating requirements.txt file (pip freeze >requirements.txt)
- initializing git (git init)
- login heroku (heroku login)
- code adding to staging area ("git add \*")
- commiting the whole code ("git commit -m "message")
- · git fetch and push heroku master

# ## Deployment of streamilit web app step wise

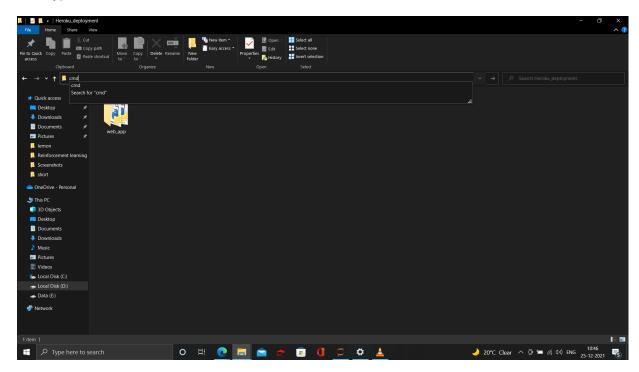
1. Create New directory(directory\_name:Heroku\_deployment) which can contain whole application file (app\_directory\_name:web\_app)



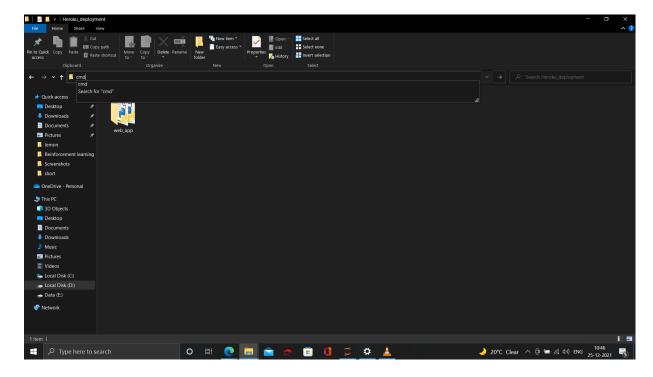
## 2. Creating new Vertual Environment

• First we have to open command prompt at the location of directory:Heroku\_deployment present

Type "cmd" and hit enter

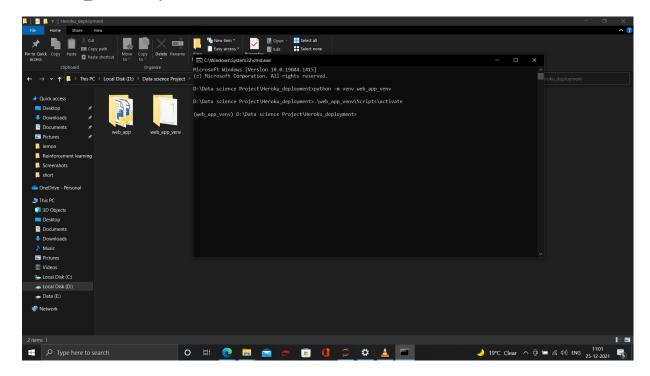


 To Creating a New Virtual Environment Exicute following cmd cmd:python -m venv env\_name
 Note-"env\_name" is the name of Virtual Environment directory



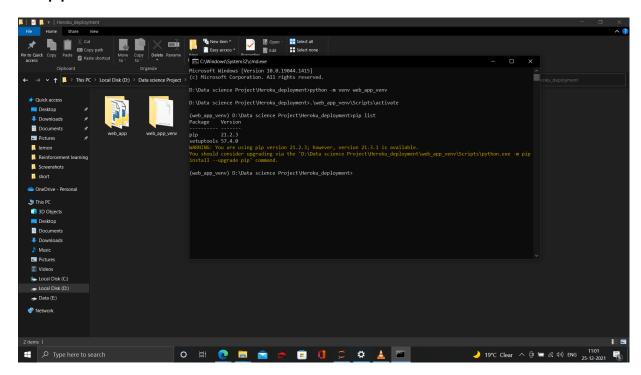
### 3. Activating created Vertual Environment

cmd:.\env\_name\Scripts\activate



## 4. Checking Present pakages

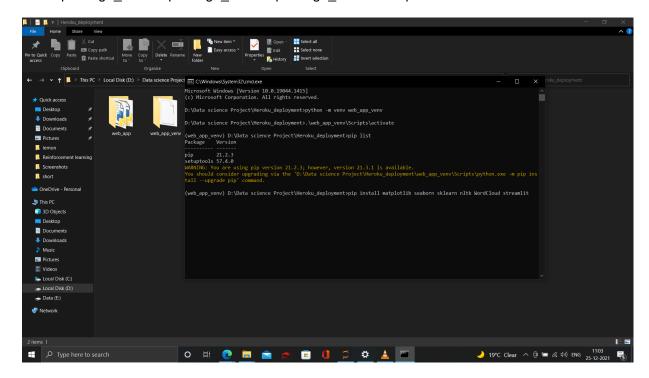
cmd:pip list



# 5. Installing Required Dependencies

### cmd:pip install package\_name1 package\_name2 package\_name3

Note-"package\_name1 package\_name2 package\_name3" Dependencies name



### 6. Ensuring runnig the app at local host for further process

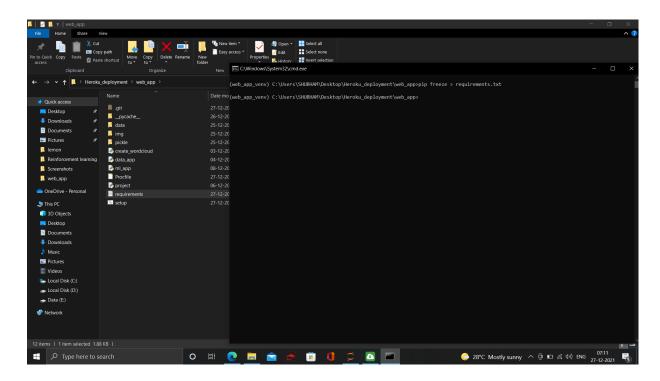
cmd:streamlit run app.py

Note-"app.py" python file name

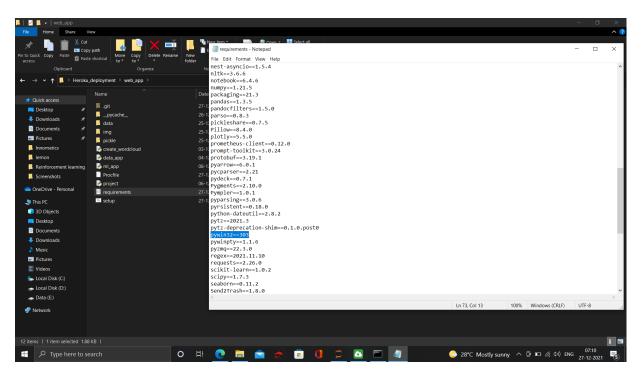
## 7. After succeefull run Creating requirements.txt file

cmd:pip freeze > requirements.txt

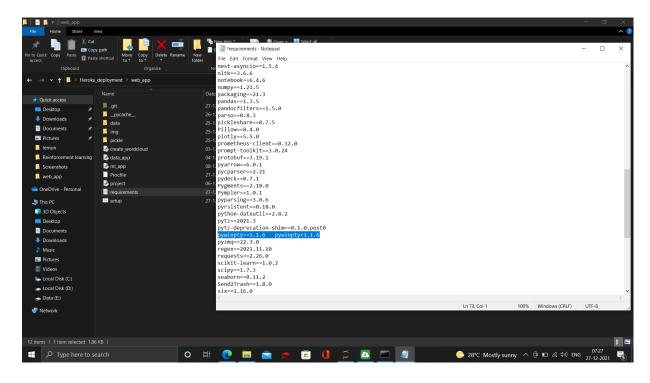
Note 1-"requirements.txt" can contains dependency name with their versions



Note 2-after creating "requirements.txt" file, Edit that file and remove "pywin32==303" because heroku runs on linux



Note 3-after changing "pywin32==303" Replacing "pywinpty==1.1.6" to "pywinpty<1.1.6" this version not fetching well



Note 2-Replacing "click==8.0.3" to "click==7.1.2" this version not fetching well ![title](heroku\solving click.png)

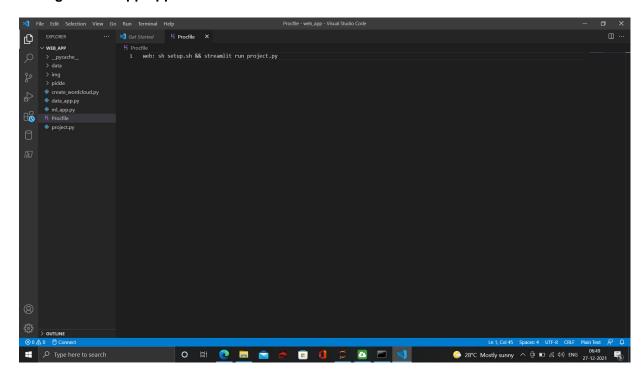
### 8. Creating file Procfile by using vs code or in cmd:touch Procfile

Procfile contains

web: sh setup.sh && streamlit run app.py

Note-"setup.sh" only required for streamlit app, for flask and Django and any other framework use following

web: gunicorn app:app



# 9. Creating file setup.sh by using vs code or in cmd:touch Procfile

Setup.sh contains

mkdir -p ~/.streamlit/ echo "

[general]\n

email = "your@gmail.com (mailto:your@gmail.com)"\n

" > ~/.streamlit/credentials.toml echo "

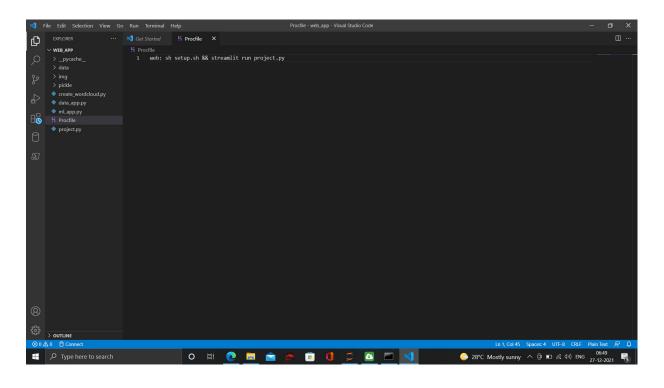
[server]\n

headless = true\n

enableCORS=false\n

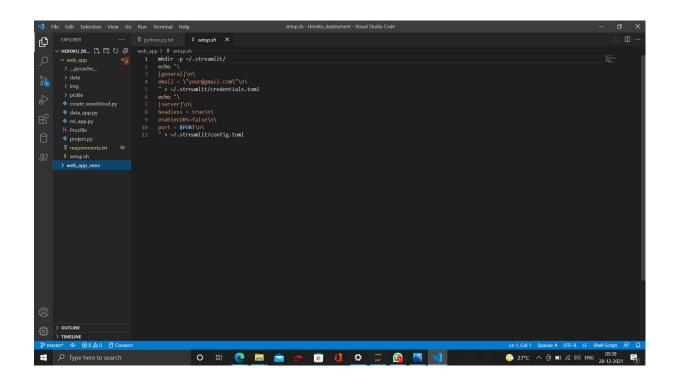
port = \$PORT\n

" > ~/.streamlit/config.toml



# 10. Creating file Procfile by using vs code or in cmd:touch Procfile

Procfile contains this file web: sh setup.sh && streamlit run project.py



### 11. login in Heorku by this cmd

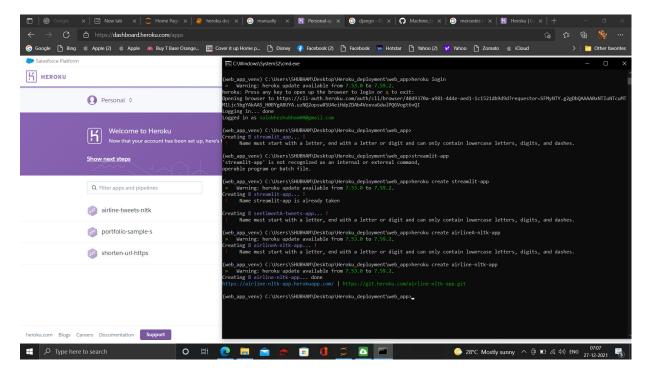
### cmd:heroku login

Note-This cmd redirecting to heroku login page

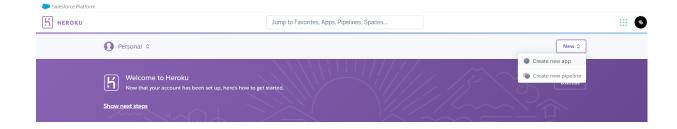
### 12. Creating new app in heroku page with unique name

### cmd:heroku create app\_name

Note-"app\_name" application name



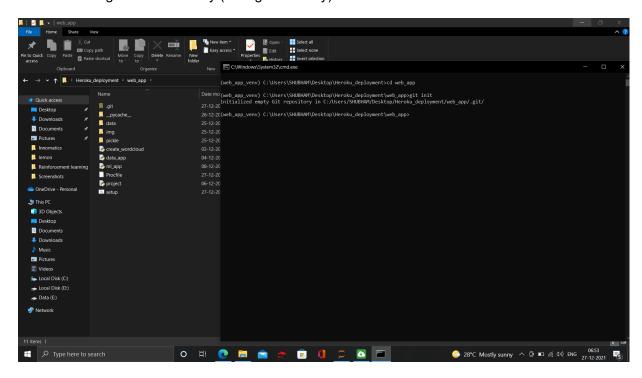
Either go with this way or create manually application name by visiting heroku.com



### 13. Initializing git

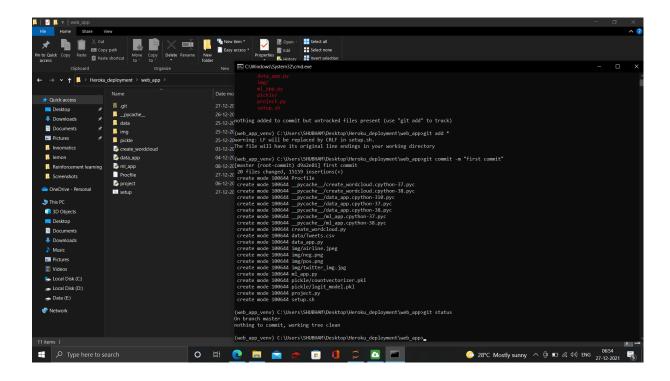
### cmd:git init

Note-initialize git in the directory (change directory)



# 14. adding and commiting all files

cmd:git add \*
cmd:git commit -m "meassage"



### 15. Fetching and pushing with heroko application

cmd:heroku git:remote -a app\_name cmd:git push heroku master

```
(web_app_venv) C:\Users\SHUBHAM\Desktop\Heroku_deployment\web_app>heroku git:remote -a airline-nltk-app
» Warning: heroku update available from 7.53.0 to 7.59.2.
set git remote heroku to https://git.heroku.com/airline-nltk-app.git

(web_app_venv) C:\Users\SHUBHAM\Desktop\Heroku_deployment\web_app>git push heroku master
Enumerating objects: 29, done.
Counting objects: 100% (29/29), done.
Delta compression using up to 8 threads
Compressing objects: 40% (11/27)
```

### 16.Installation successful

