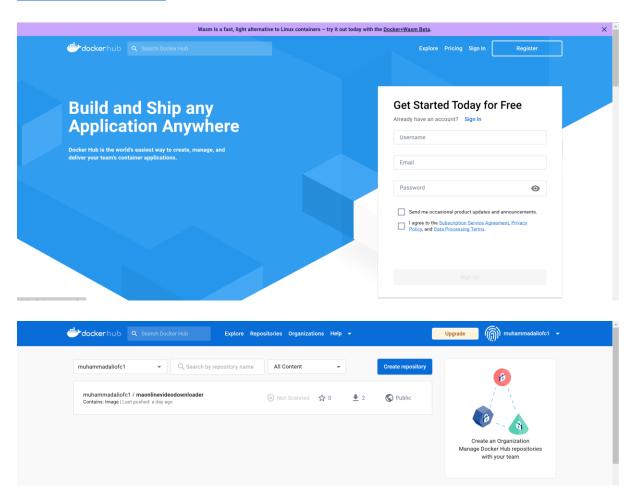
1. First, go to Docker Hub website and create your account (If not already created)

https://hub.docker.com/

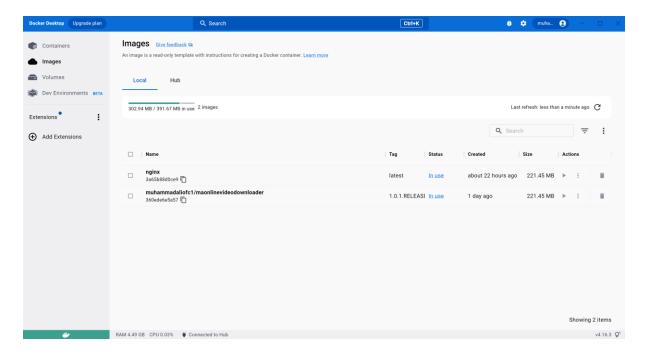


2. After creating account on Docker Hub, please download and install Docker Desktop software on your machine.

https://www.docker.com/products/docker-desktop/



- 3. After installing Docker Desktop software, please run it and login into Docker Desktop using your account credentials created on Docker Hub.
- 4. After login into Docker Desktop, it will appear like this, and all your Docker Images will appear here.



5. Download and Install Visual Studio Code (Windows Version) software from below URL.

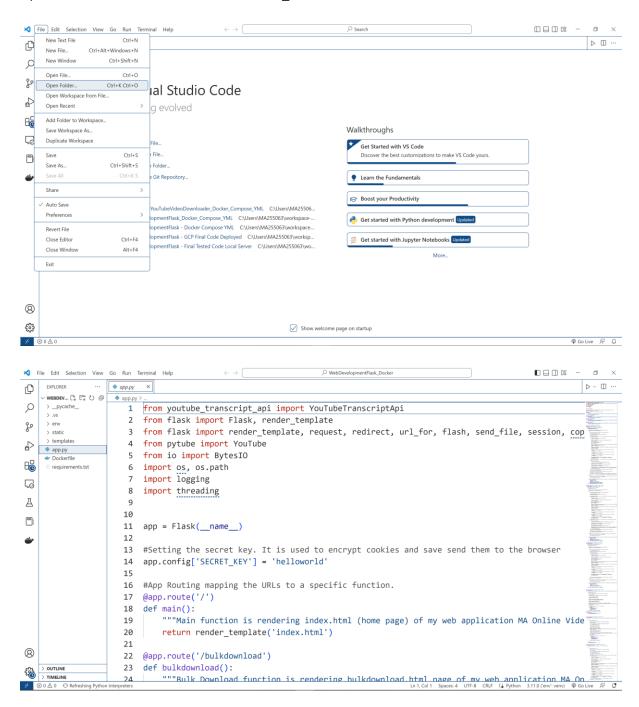
https://code.visualstudio.com/download



6. Download **MAOnlineYouTubeVideoDownloader_Docker** folder from below GitHub repository and place it in VS Code workspace.

https://github.com/ma-muhammadali/pse MAOnlineYouTubeVideoDownloader Docker.git

7. Open MAOnlineYouTubeVideoDownloader_Docker in VS Code

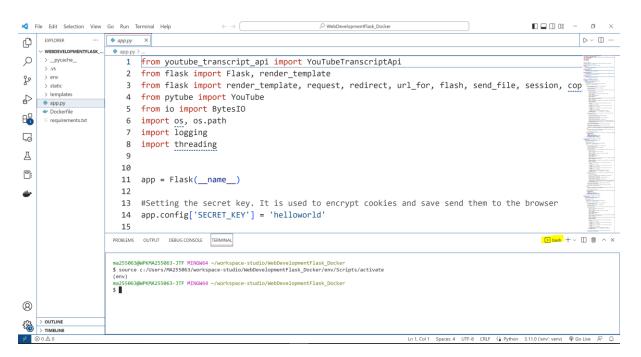


8. Click on Toggle Panel to display the Terminal.

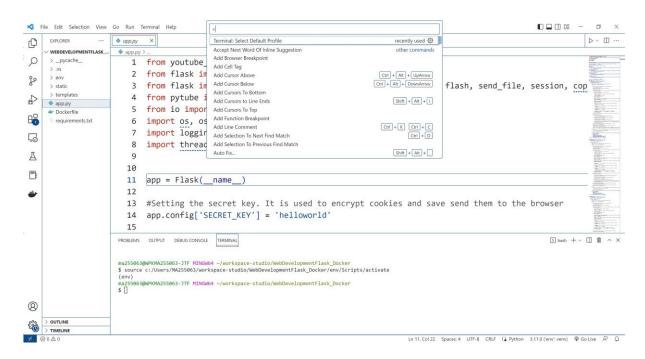
```
Toggle Panel (Ctrl+J)
Ф
    EXPLORER
    WEBDEV... [] E] U @
                    app.py
Q
                          from youtube_transcript_api import YouTubeTranscriptApi
                       1
                          from flask import Flask, render_template
થુ
                         from flask import render_template, request, redirect, url_for, flash, send_file, session, cop
    > static
                       3
                       4
                         from pytube import YouTube
$
                          from io import BytesIO
6
                          import os, os.path
                          import logging
\overline{\Box}
                          import threading
Д
                      10
11 app = Flask(__name__)
                      12
                      13 #Setting the secret key. It is used to encrypt cookies and save send them to the browser
                      14
                         app.config['SECRET_KEY'] = 'helloworld'
                      15
                      16 #App Routing mapping the URLs to a specific function.
                     17
                         @app.route('/')
                      18 def main():
                      19
                              """Main function is rendering index.html (home page) of my web application MA Online Vide
                      20
                              return render_template('index.html')
                      21
(8)
                      22
                         @app.route('/bulkdownload')
                      23
                         def bulkdownload():
                               """Bulk Download function is rendering hulkdownload html nage of mv web annication MA On

In:(Oli Space:4 UTF8 CRE (1 Python 3:110/em/vem) @ Gol
                      24
```

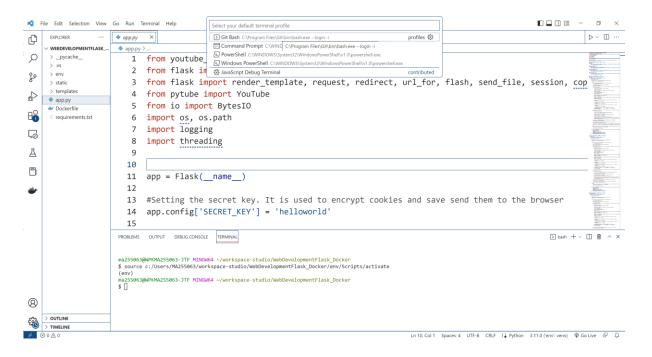
9. When Terminal opens, please make sure that it is set to **Bash** command.



10. If it is not set to Bash command, please press CTRL + SHIFT + P and click on Terminal: Select Default Profile.



11. Choose Git Bash and Terminal will be set as Bash.



12. After selecting the Terminal as Bash, check the version of docker by running below command.

\$ docker -v



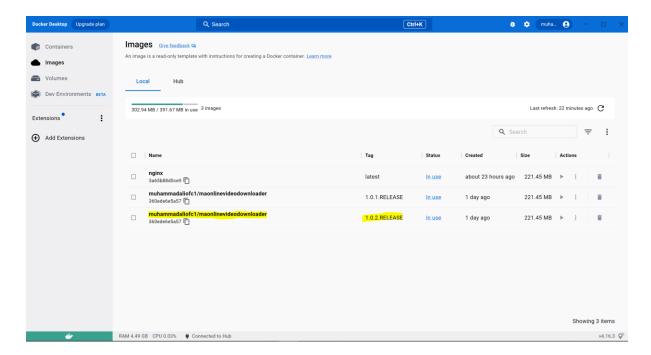
13. Now we will create Docker Image by running below command.



docker build -t muhammadaliofc1/maonlinevideodownloader:1.0.2.RELEASE .

In this command, we will build a Docker image

- muhammadaliofc1/maonlinevideodownloader is the name of the image
- 1.0.2.RELEASE is the release number of this image
- 14. As you can see, Docker Image is created successfully and same is reflecting in Docker Desktop as well.



- 15. There are two methods to run this image as container.
- 16. First method is to run below command and start the Container



\$ docker container run -d -p 3000:3000 muhammadaliofc1/maonlinevideodownloader:1.0.2.RELEASE

Here we are binding the host port with container port. Since we have exposed Port:3000 so we need to mention same in above command



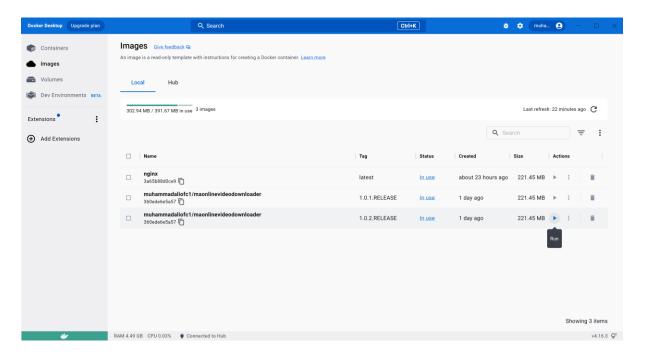


17. You can also check the status of Container by running below command

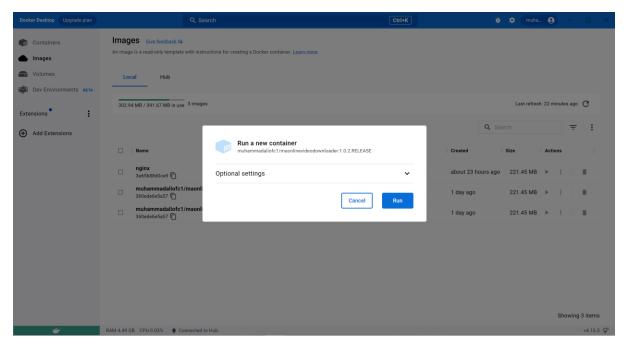
\$ docker container Is

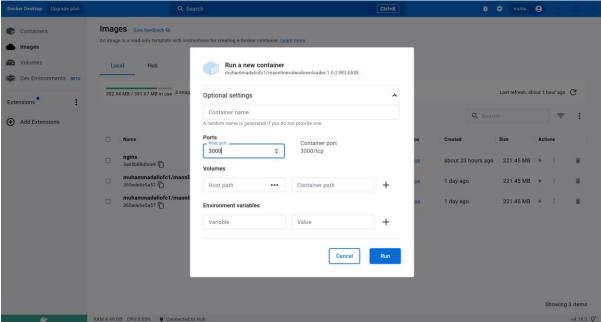


18. Second method is to click the **Run** button which is available in the front of this Docker Image.



- 19. A dialog box will appear. Click on Optional settings.
- 20. Select Host port: 3000 and hit Run button.





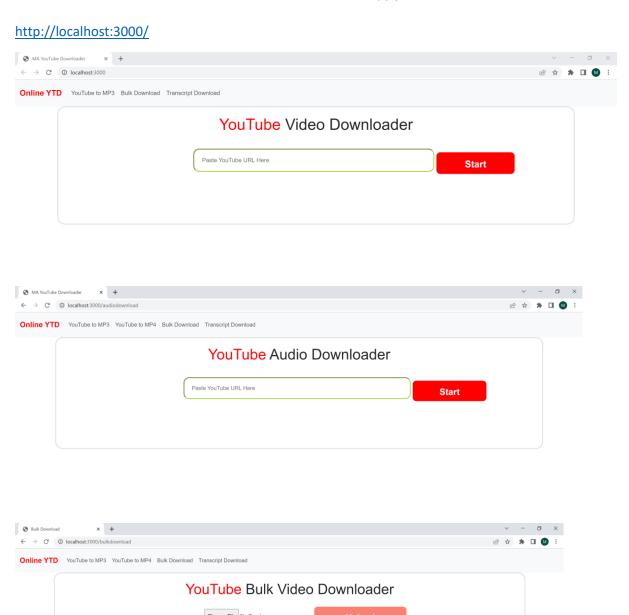
21. The container will start running and same will appear in Docker Desktop Containers tab.

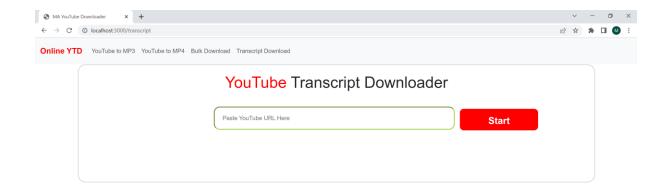


22. As you can see, this Docker Image is running as Container.



23. To access the MA Online YouTube Video Downloader web app just hit below URL.





24. Please follow the "How to use MA Online YouTube Video Downloader" to download Video/Audio/Transcript from YouTube.