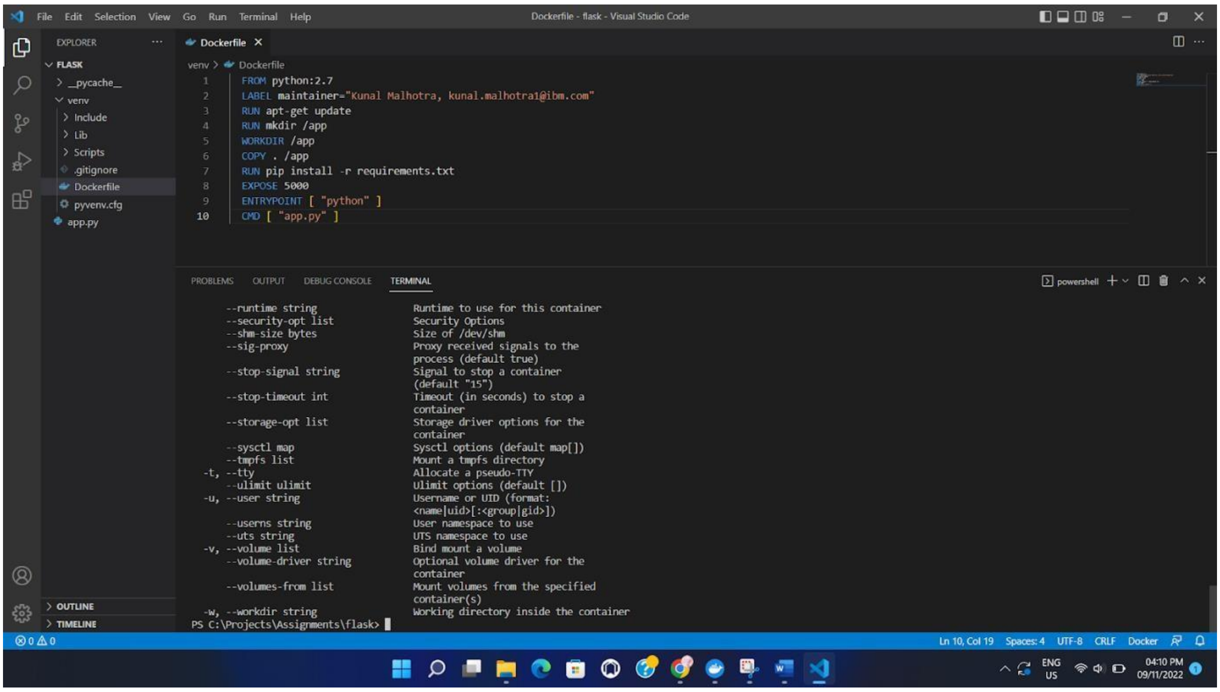
DEPLOYMENTOFAPPINIBM CLOUD

CONTAINERIZETHEAPP

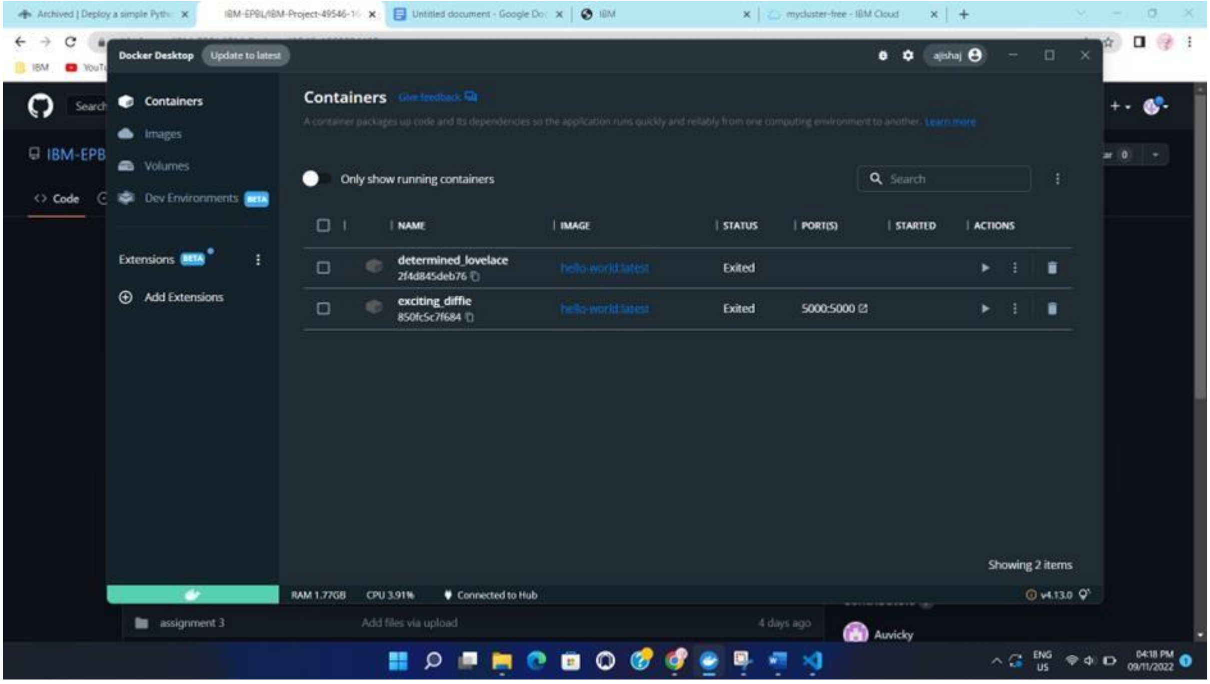
TEAMID	PNT2022TMID22250
PROJECTNAME	SmartFashionRecommenderApplication

In your project directory, create a file named "Dockerfile”. In the file, paste this code.Opentheterminalandtypethis commandtobuildanimagefromyour Dockerfile:dockerbuild -thello-world:latest.



```
FROM python:2.7
LABEL maintainer="Kunal Malhotra, kunal.malhotra1@ibm.com"
RUN apt-get update
RUN mkdir /app
WORKDIR /app
COPY . /app
RUN pip install -r requirements.txt
EXPOSE 5000
ENTRYPOINT [ "python" ]
CMD [ "app.py" ]
```

```
      --runtime string             Runtime to use for this container
      --security-opt list          Security Options
      --shm-size bytes             Size of /dev/shm
      --sig-proxy                  Proxy received signals to the
                                   process (default true)
      --stop-signal string         Signal to stop a container
                                   (default "15")
      --stop-timeout int           Timeout (in seconds) to stop a
                                   container
      --storage-opt list           Storage driver options for the
                                   container
      --sysctl map                 Sysctl options (default map[])
      --tmpfs list                 Mount a tmpfs directory
  -t, --tty                        Allocate a pseudo-TTY
      --ulimit ulimit              Ulimit options (default [])
  -u, --user string                Username or UID (format:
                                   <name|uid>[:<group|gid>])
      --userns string              User namespace to use
      --uts string                 UTS namespace to use
  -v, --volume list                Bind mount a volume
      --volume-driver string       Optional volume driver for the
                                   container
      --volumes-from list          Mount volumes from the specified
                                   container(s)
  -w, --workdir string             Working directory inside the container
PS C:\Projects\Assignments\flask>
```



Containers

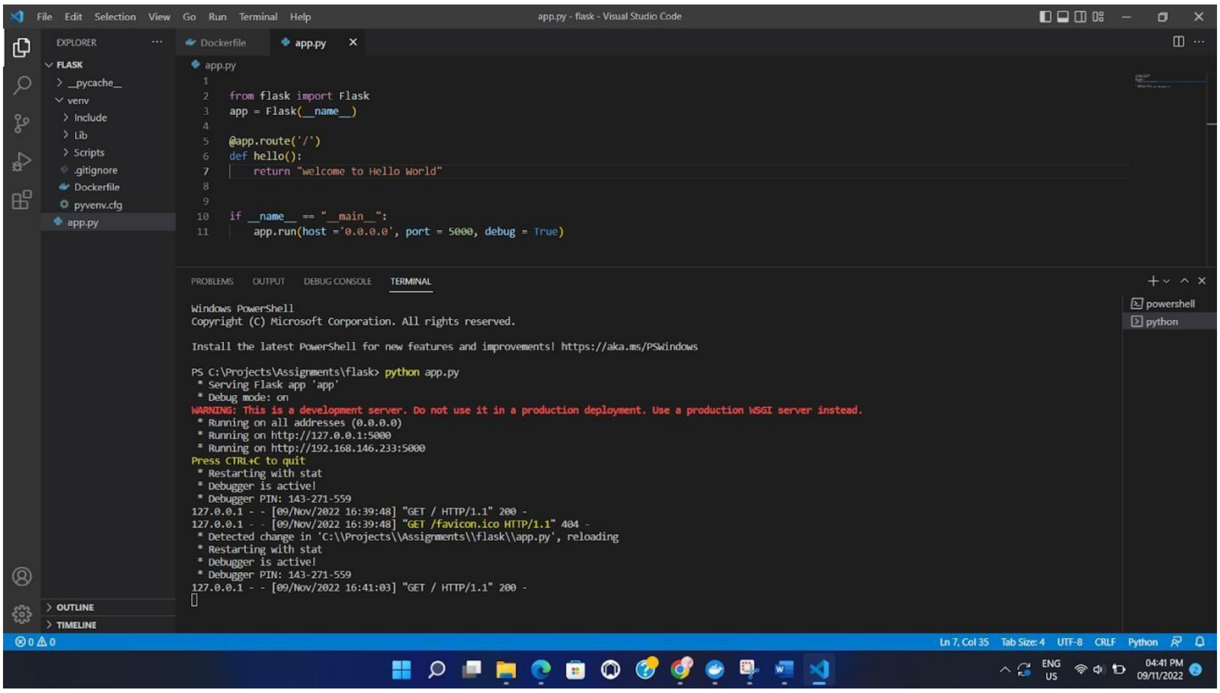
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more

○ Only show running containers

NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
determined_lovelace 2f4d845deb76	hello-world:latest	Exited			
exciting_diffie 850fc5c7f684	hello-world:latest	Exited	5000:5000		

Showing 2 items

Test byrunningthe codeinlocalhost



```python

from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello():
    return "welcome to Hello World"


if __name__ == "__main__":
    app.run(host ='0.0.0.0', port = 5000, debug = True)
```

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Projects\Assignments\flask> python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://192.168.146.233:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 143-271-559
127.0.0.1 - - [09/Nov/2022 16:39:48] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [09/Nov/2022 16:39:48] "GET /favicon.ico HTTP/1.1" 404 -
 * Detected change in 'C:\\Projects\\Assignments\\flask\\app.py', reloading
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 143-271-559
127.0.0.1 - - [09/Nov/2022 16:41:03] "GET / HTTP/1.1" 200 -
```

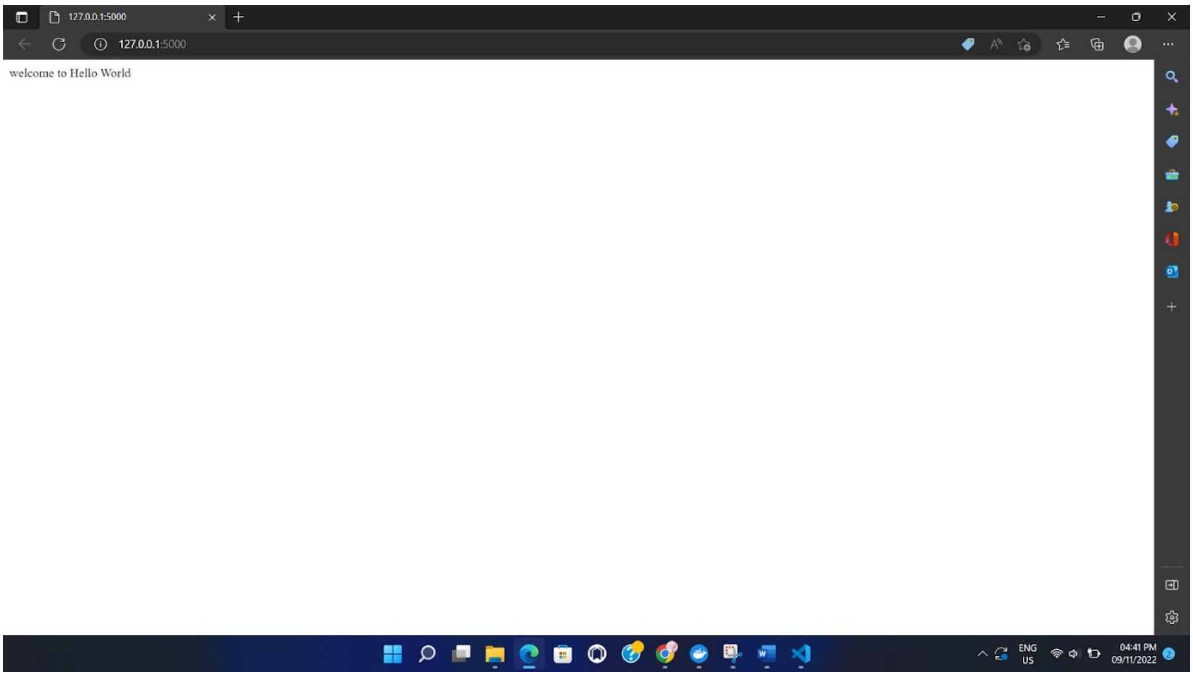

welcome to Hello World