Section 4

21)   DOCKER IMAGES

Manual application setup:
1) Os- ubantu
2) update apt repo
3) install dependencys
4) copy source to /opt folder
5) run the web server

Using docker file:

FROM Ubantu
RUN apt-get update && apt-et -y install python
RUN pip install flask flask-mysql
COPY . /opt/source-code
ENTRYPOINT FLASK_APP=/opt/source-code/app.py flask run
----
docker build . -f Dockerfile -t mmumshad/my-custom-app
docker push mmumshad/my-custom-app

<INSTRUCTION> <ARGUMENT>

22)   Demo - Creating a mew Docker Image

manual
----
docker run -it ubuntu bash
apt-get update
apt-get install -y python
apt-get install python-pip
 pip install flask
cat > /opt/app.py
FLASK_APP=app.py flask run --host=0.0.0.0

```
apt-get install python-pip
 pip install flask
```

FLASK_APP=app.py flask run --host=0.0.0.0

push docker image
----
docker build . -t mmumshad/my-simpleapp
docker images
docker login
docker push mmumshad/my-simpleapp

24)   Environmnt Variables

Web App -> app.py
color = os.environment.get('APP_COLOR')
export APP_COLOR=blue; python app.py

docker run -e APP_COLOR=blue simple-webap-color
docker run -e APP_COLOR=redsimple-webap-color

26)   Command vs EntryPoint

CMD["command","param1"]
CMD ["sleep" , "5"]
docker run ubantu-sleeper sleep 10
Command at Srtartup: sleep 10

ENNPOINT["sleep"]
docker run ubantu-sleeper 10
command at startup: sleep 10