

Assignment-3

Question:-1

```
var http = require("http");
http.createServer(function (req, res) {
  console.log(new Date().toUTCString() + "-" + req.url);
  res.writeHead(200, {'Content-Type':"text/plain"});
  res.end("Hello, Docker");
}).listen(3000);
console.log('Server running at http://0.0.0.0:3000/');
```

```
FROM mhart/alpine-node:4.4
COPY ./app.js /user/bin/node
EXPOSE 3000
ENTRYPOINT ["node", "/user/bin/node", "app.js"]
```

```

=> => exporting layers                                0.1s
=> => writing image sha256:de0810710472bcaea6170b933a3a7a6a0d77a5e78acb20730c25276d114dff4e 0.0s
=> => naming to docker.io/library/ass2                0.0s
root@garveet-VMware-Virtual-Platform:/home/garveet/ass2# docker run -p 8050:8080 ass2
* Serving Flask app 'app'
* Debug mode: off
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://127.0.0.1:8080
* Running on http://172.17.0.3:8080
Press CTRL+C to quit
^Croot@garveet-VMware-Virtual-Platform:/home/garveet/ass2# docker run -d -p 8050:8080 ass2
58f169328c8b96dd54068d15b8f33618b3bf61f3426334164bd1caccbbce2cba
root@garveet-VMware-Virtual-Platform:/home/garveet/ass2# cd ..
root@garveet-VMware-Virtual-Platform:/home/garveet# cd yash/
root@garveet-VMware-Virtual-Platform:/home/garveet/yash# ls
app.js  Dockerfile
root@garveet-VMware-Virtual-Platform:/home/garveet/yash# vim app.js
root@garveet-VMware-Virtual-Platform:/home/garveet/yash# docker run yash
Unable to find image 'yash:latest' locally
docker: Error response from daemon: pull access denied for yash, repository does not exist or may require 'docker login'
: denied: requested access to the resource is denied.
See 'docker run --help'.
root@garveet-VMware-Virtual-Platform:/home/garveet/yash# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ass2          latest   de0810718472   4 minutes ago  1.03GB
<none>        <none>   dc504d6805a5   6 minutes ago  1.03GB
test          latest   6240b574d805   7 hours ago    36.2MB
ass3          latest   8875722fbcf2   2 weeks ago    470MB
root@garveet-VMware-Virtual-Platform:/home/garveet/yash# docker run test
Server running at http://0.0.0.0:3000/

```

Question:-2

```

import os
from flask import Flask
app = Flask(__name__)

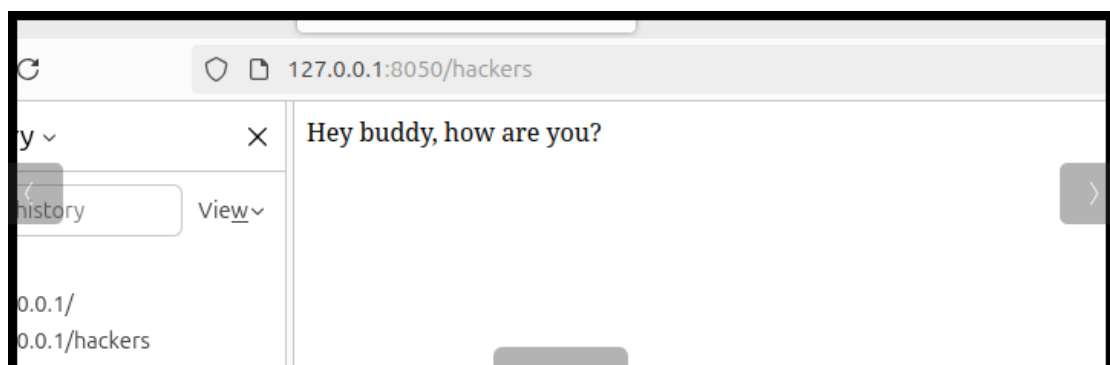
@app.route("/")
def main():
    return "Welcome!"

@app.route("/hackers")
def hello():
    return "Hey buddy, how are you?"

if __name__ == "__main__":
    app.run(host="0.0.0.0", port=8080)

```

```
FROM python:3
COPY ./app.py .
RUN pip install flask
EXPOSE 5000
ENTRYPOINT [ "python3", "app.py" ]
```



Question:-3

FROM jenkins/jenkins:lts

EXPOSE 8000

EXPOSE 50000

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