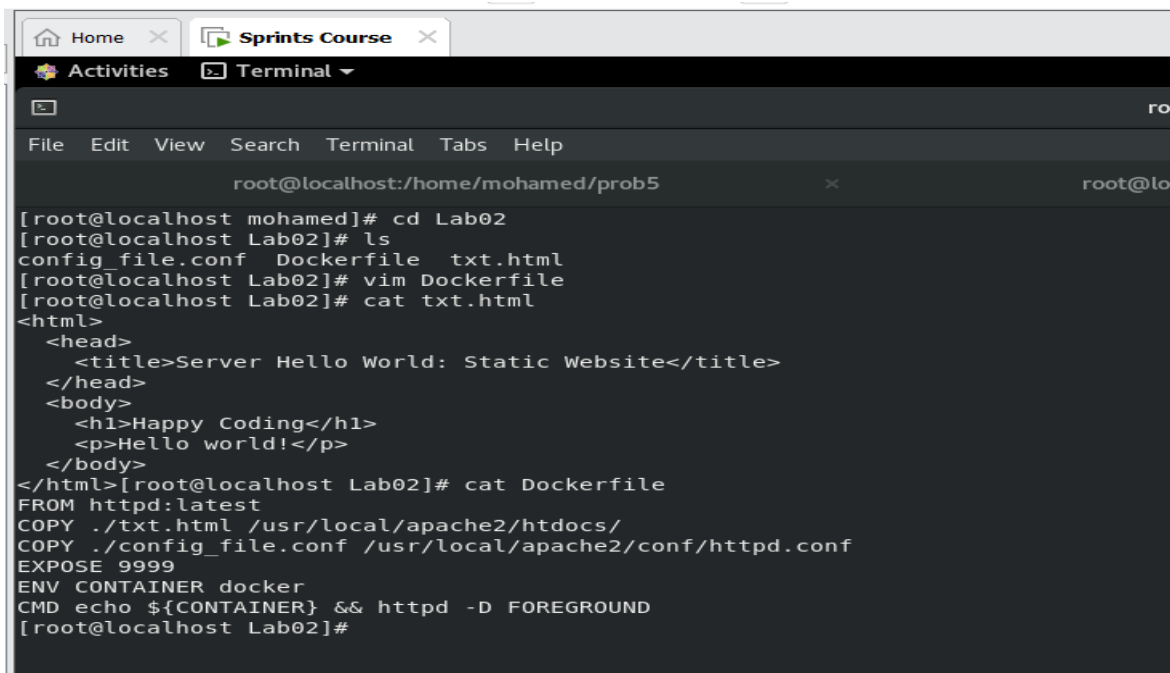


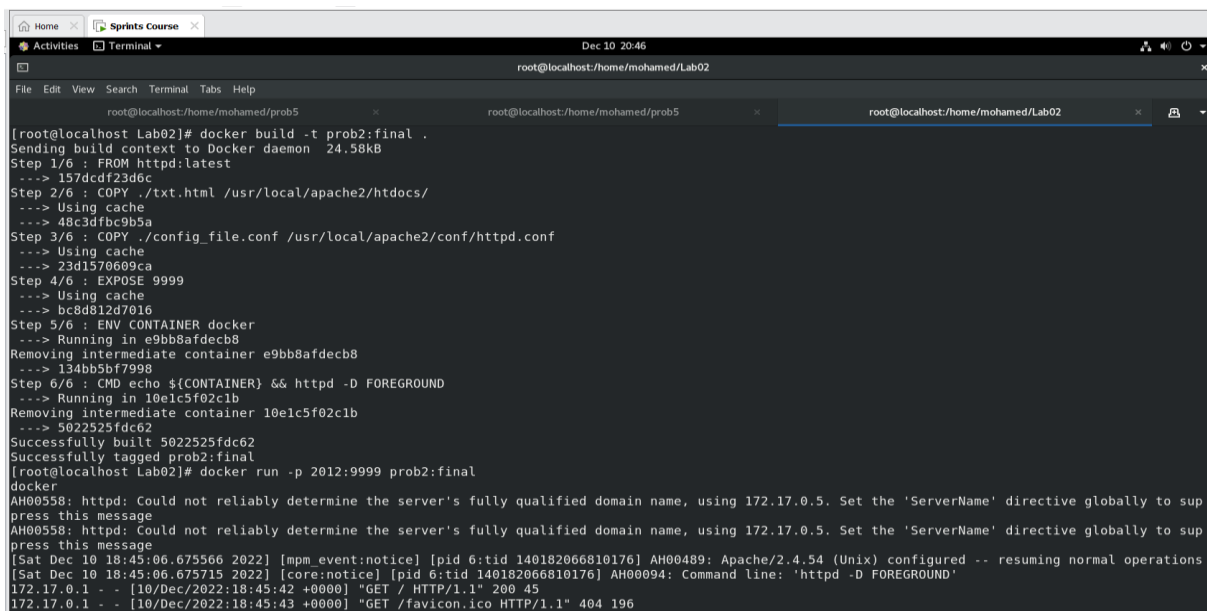
Problem 2:

- Create static html file.
- Write Dockerfile to build image based on httpd to host the html file.
- Copy the html file.
- Copy a new configuration file to listen on port 9999 instead of 80.
- Open the port 9999 in the container.
- Add environment variable CONTAINER with value docker.
- Add start-up command to echo the variable.

Solution:



```
root@localhost:/home/mohamed/prob5
[root@localhost mohamed]# cd Lab02
[root@localhost Lab02]# ls
config_file.conf  Dockerfile  txt.html
[root@localhost Lab02]# vim Dockerfile
[root@localhost Lab02]# cat txt.html
<html>
  <head>
    <title>Server Hello World: Static Website</title>
  </head>
  <body>
    <h1>Happy Coding</h1>
    <p>Hello world!</p>
  </body>
</html>
[root@localhost Lab02]# cat Dockerfile
FROM httpd:latest
COPY ./txt.html /usr/local/apache2/htdocs/
COPY ./config_file.conf /usr/local/apache2/conf/httpd.conf
EXPOSE 9999
ENV CONTAINER docker
CMD echo ${CONTAINER} && httpd -D FOREGROUND
[root@localhost Lab02]#
```



```
Dec 10 20:46
root@localhost:/home/mohamed/Lab02
[root@localhost Lab02]# docker build -t prob2:final .
Sending build context to Docker daemon 24.58kB
Step 1/6 : FROM httpd:latest
--> 157dcdf23d6c
Step 2/6 : COPY ./txt.html /usr/local/apache2/htdocs/
--> Using cache
--> 48c3dfbc9b5a
Step 3/6 : COPY ./config_file.conf /usr/local/apache2/conf/httpd.conf
--> Using cache
--> 23d1570609ca
Step 4/6 : EXPOSE 9999
--> Using cache
--> bc8d812d7016
Step 5/6 : ENV CONTAINER docker
--> Running in e9bb8afdec8
Removing intermediate container e9bb8afdec8
--> 134bb5b77998
Step 6/6 : CMD echo ${CONTAINER} && httpd -D FOREGROUND
--> Running in 10e1c5f02c1b
Removing intermediate container 10e1c5f02c1b
--> 5022525f6c2
Successfully built 5022525f6c2
Successfully tagged prob2:final
[root@localhost Lab02]# docker run -p 2012:9999 prob2:final
docker
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.5. Set the 'ServerName' directive globally to suppress this message
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.5. Set the 'ServerName' directive globally to suppress this message
[Sat Dec 10 18:45:06.675566 2022] [mpm.event:notice] [pid 6:tid 140182066810176] AH00489: Apache/2.4.54 (Unix) configured -- resuming normal operations
[Sat Dec 10 18:45:06.675715 2022] [core:notice] [pid 6:tid 140182066810176] AH00094: Command line: 'httpd -D FOREGROUND'
172.17.0.1 - - [10/Dec/2022:18:45:42 +0000] "GET / HTTP/1.1" 200 45
172.17.0.1 - - [10/Dec/2022:18:45:43 +0000] "GET /favicon.ico HTTP/1.1" 404 196
```

