

## DevOps Lab – Program 1 CREATING A DOCKER FILE

### Project Structure:

program\_1/

```
|  
+-- Dockerfile  
+-- app.py  
+-- requirements.txt
```

### Step 1: Set Up Project Directory

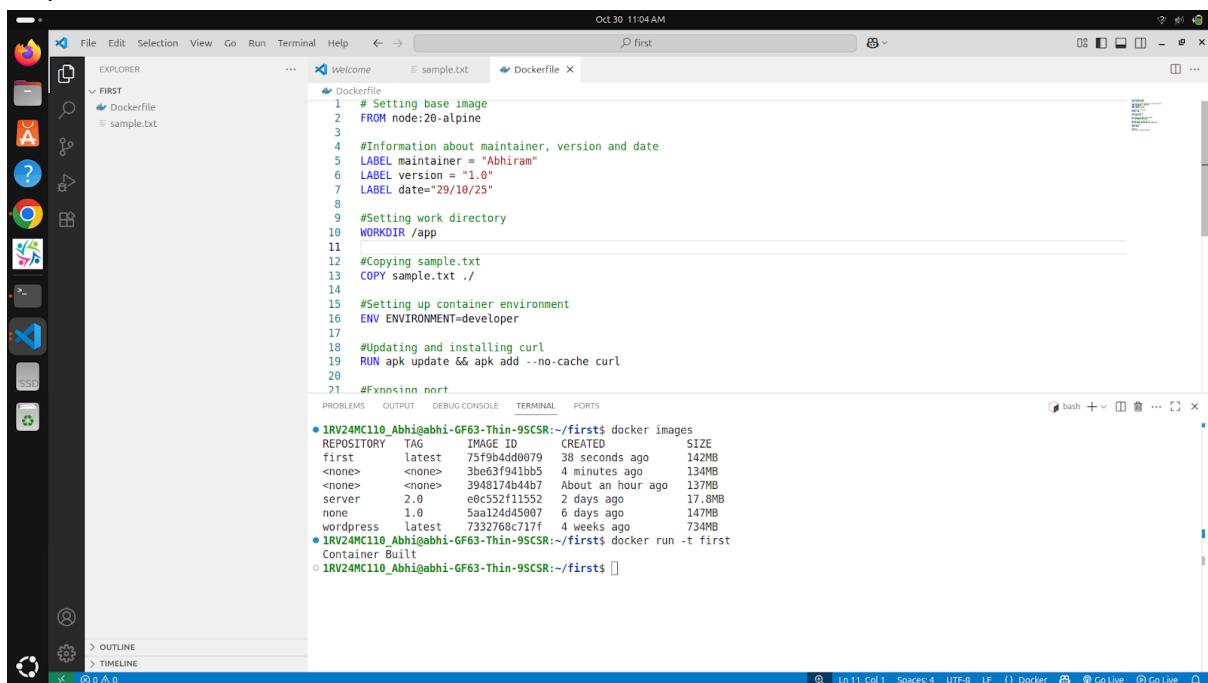
```
mkdir program_1
```

```
cd program_1
```

Step 2 – Create the Dockerfile Open a new Dockerfile: sudo nano Dockerfile

Step 3 - Build the image

Step 4 - Run the container



The screenshot shows the Visual Studio Code (VS Code) interface. On the left is the Explorer sidebar with a folder named 'FIRST' containing 'Dockerfile' and 'sample.txt'. The main editor area displays a Dockerfile with the following content:

```
1 # Setting base image  
2 FROM node:20-alpine  
3  
4 #Information about maintainer, version and date  
5 LABEL maintainer = "Abhiram"  
6 LABEL version = "1.0"  
7 LABEL date="29/10/25"  
8  
9 #Setting work directory  
10 WORKDIR /app  
11  
12 #Copying sample.txt  
13 COPY sample.txt ./  
14  
15 #Setting up container environment  
16 ENV ENVIRONMENT=developer  
17  
18 #Updating and installing curl  
19 RUN apk update && apk add --no-cache curl  
20  
21 #Exonsing.nort
```

Below the editor is a terminal window showing the command-line interface:

```
• 1RV24MC110_Abhi@abhi-GF63-Thin-95CSR:~/first$ docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
first latest 75f994dd0079 38 seconds ago 142MB  
<none> <none> 3be63f941bb5 4 minutes ago 134MB  
<none> <none> 3948174b44b7 About an hour ago 137MB  
server 2.0 e0c52f11552 2 days ago 17.8MB  
none 1.0 5aa124d45007 6 days ago 147MB  
wordpress latest 7332768c717f 4 weeks ago 734MB  
• 1RV24MC110_Abhi@abhi-GF63-Thin-95CSR:~/first$ docker run -t first  
Container Built  
• 1RV24MC110_Abhi@abhi-GF63-Thin-95CSR:~/first$
```