**Docker file:**

When we will run the application, It might require some pre-requisites to run.

For example, if we run any spring boot application, the pre-requisite is to have JDK.

**NOTE: Dockerfile should name have any extension in it.**

*# Use the official JDK 17 image as a parent image***FROM openjdk:17-jdk-alpine  
  
*# Set the working directory in the container*WORKDIR /app  
  
*# Copy the packaged Spring Boot jar file into the container*COPY build/libs/01-jenkins-docker-0.0.1-SNAPSHOT.jar my-first-app.jar  
  
*# Expose the port the application runs on*EXPOSE 8080  
  
*# Set the command to run the Spring Boot application*ENTRYPOINT ["java", "-jar", "my-first-app.jar"]**

Docker build command:

**docker build -t sumit06420/my-first-app:1.0.0 .**

* It will create image and be checked using **docker images**

Docker run command:

**docker run -d -p 8000:8080 sumit06420/my-first-app:1.0.0**

* It will run the application and can be tested on

[**http://localhost:8000/api/v1/hello**](http://localhost:8000/api/v1/hello) **POSTMAN**

**To push image to the Docker Hub:**

* docker login
* docker push sumit06420/my-first-app:1.0.0