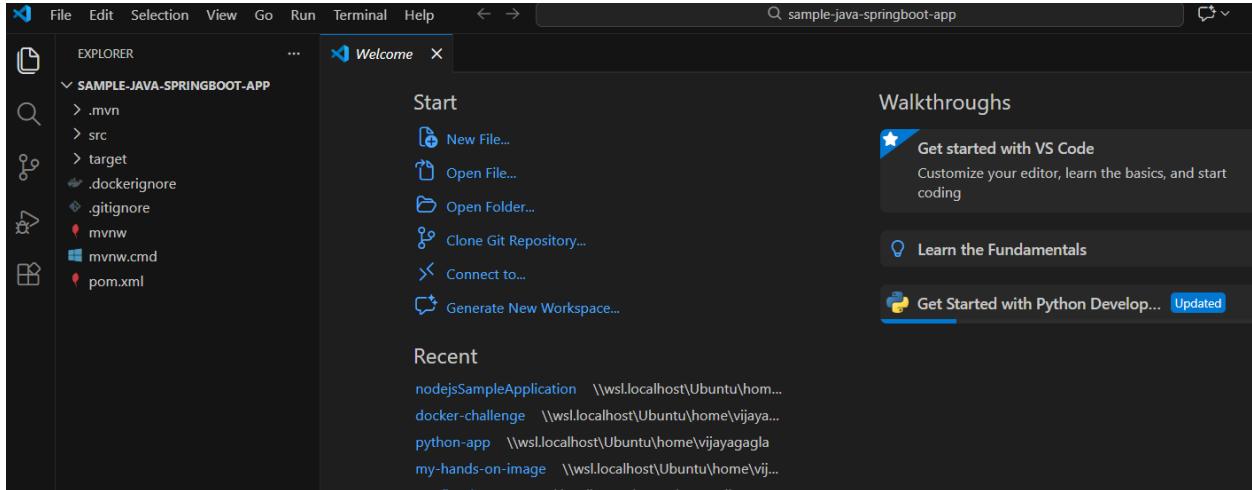


LAB Build and Deploy a Java App using Docker



```
vijayagagla@DESKTOP-FP4OP26:~/sample-java-springboot-app$ java --version
openjdk 17.0.18 2026-01-20
OpenJDK Runtime Environment (build 17.0.18+8-Ubuntu-124.04.1)
OpenJDK 64-Bit Server VM (build 17.0.18+8-Ubuntu-124.04.1, mixed mode, sharing)
```

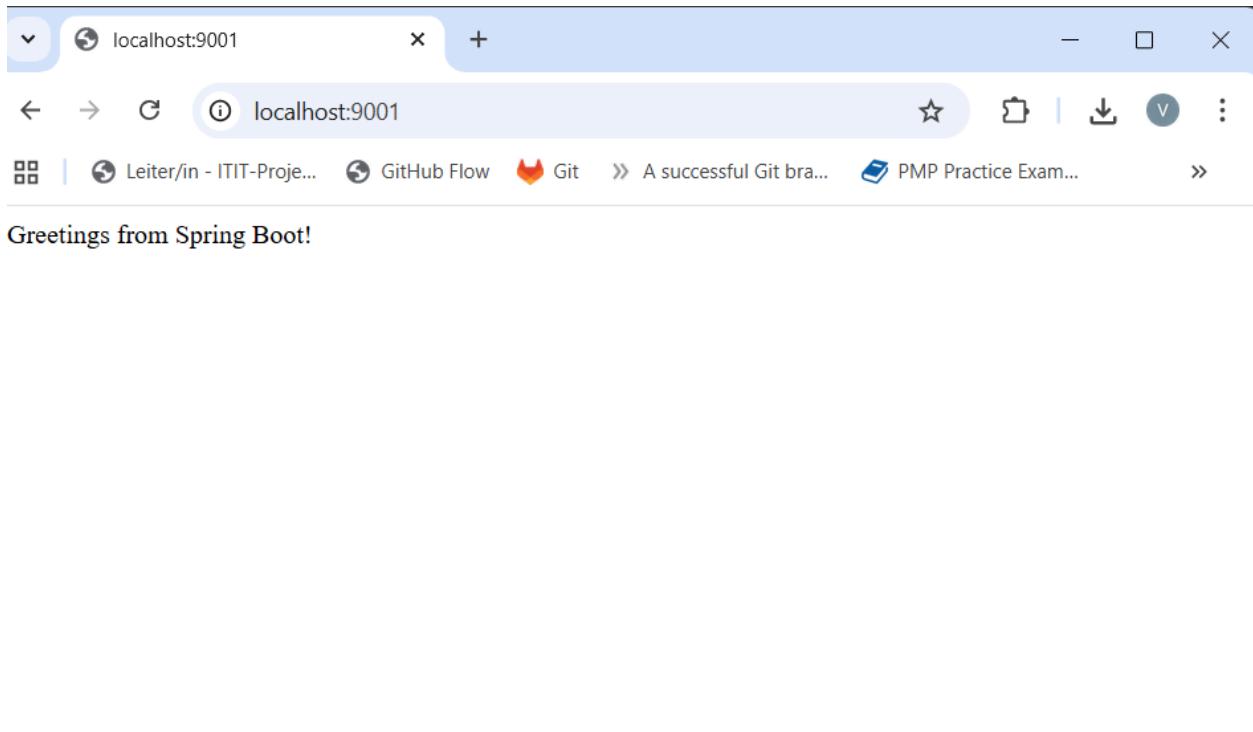
```
vijayagagla@DESKTOP-FP4OP26:~/sample-java-springboot-app$ ./mvnw spring-boot:run
Warning: JAVA_HOME environment variable is not set.
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.uptut:sample-web-java-app >-----
[INFO] Building sample-web-java-app 0.0.1-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] >>> spring-boot:3.2.5:run (default-cli) > test-compile @ sample-web-java-app >>>
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ sample-web-java-app ---
[INFO] Copying 1 resource from src/main/resources to target/classes
[INFO] Copying 0 resource from src/main/resources to target/classes
[INFO]
[INFO] --- compiler:3.11.0:compile (default-compile) @ sample-web-java-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ sample-web-java-app ---
[INFO] skip non existing resourceDirectory /home/vijayagagla/sample-java-springboot-app/src/test/resources
[INFO]
[INFO] --- compiler:3.11.0:testCompile (default-testCompile) @ sample-web-java-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] <<< spring-boot:3.2.5:run (default-cli) < test-compile @ sample-web-java-app <<<
[INFO]
[INFO] --- spring-boot:3.2.5:run (default-cli) @ sample-web-java-app ---
[INFO] Attaching agents: []

.
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( ( ) \ _ _ | _ _ | _ _ | _ _ \ _ _ | \ \ \ \
\ \ \ _ _ | _ _ | _ _ | _ _ | ( ) | ) ) )
' _ _ | _ _ | _ _ | _ _ | _ _ | _ _ | _ _ |
=====|_|=====|_|/_=/_/_/_/
:: Spring Boot ::          (v3.2.5)

2026-02-03T14:43:31.968+01:00  INFO 28354 --- [sample-web-java-app] [           main] c.u.s.SampleWebJavaAp
Application      : Starting SampleWebJavaAppApplication using Java 17.0.18 with PID 28354 (/home/vijayagagla

```

```
vijayagagla@DESKTOP-FP4OP26:~/sample-java-springboot-app$ curl localhost
Greetings from Spring Boot!vijayagagla@DESKTOP-FP4OP26:~/sample-java-springboot-app$
```



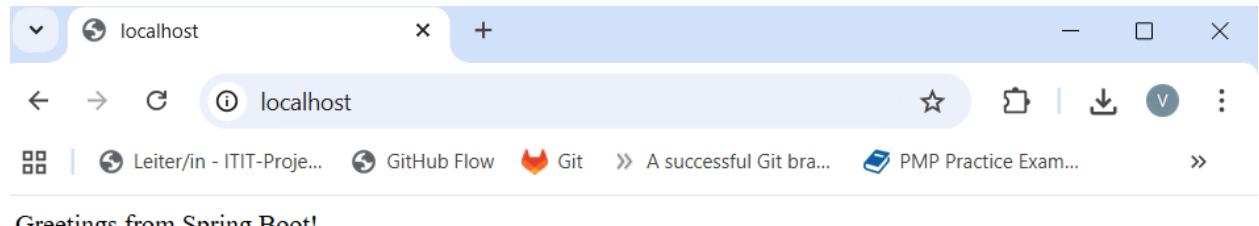
TASK 2 – Writing the Dockerfile

```
sample-java-springboot-app
File Edit Selection View Go Run Terminal Help
EXPLORER SAMPLE-JAVA-SPRINGBOOT-APP .mvn src target .dockerignore .gitignore Dockerfile mvnw mvnw.cmd pom.xml
Dockerfile
FROM eclipse-temurin:17-jdk-alpine
WORKDIR /app
EXPOSE 8080
COPY .mvn/.mvn
COPY mvnw pom.xml .
RUN ./mvnw dependency:go-offline
COPY src ./src
CMD ["./mvnw", "spring-boot:run"]
```

A screenshot of the Visual Studio Code (VS Code) interface. The left sidebar shows the project structure for 'SAMPLE-JAVA-SPRINGBOOT-APP' with files like '.mvn', 'src', 'target', '.dockerignore', '.gitignore', 'Dockerfile', 'mvnw', 'mvnw.cmd', and 'pom.xml'. The right pane shows the 'Dockerfile' content:

TASK 3 – Building and Running the Container

```
vijayagagla@DESKTOP-FP4OP26:~/sample-java-springboot-app$ docker image ls
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
sample-java-app     latest   24392e2ba6de  About a minute ago  438MB
sample-java-app     latest   735726662f5c  About an hour ago  4.19GB
```



Greetings from Spring Boot!