ADDA LABFAT Q) DOCKER

Step 1: Create the Java File

```
HelloWorld.java:

public class HelloWorld {

public static void main(String[] args) {

System.out.println("Hello from Dockerized Java!");

System.out.println("Containerization successful  ?");

}

Folder Structure
```

Dockerfile:

java-docker-app/ ├─ Dockerfile └─ HelloWorld.java

```
# Use OpenJDK image
FROM openjdk:17

# Set working directory inside container
WORKDIR /app

# Copy source file to container
COPY HelloWorld.java .

# Compile the Java file
RUN javac HelloWorld.java
```

Command to run the Java program
CMD ["java", "HelloWorld"]
Step 3: Build and Run the Docker Image
Run these commands from your terminal inside the java-docker-app folder:
bash
CopyEdit
Build the image
docker build -t java-hello:v1 .
Run the container
docker runname myjavaapp java-hello:v1
Expected output:
csharp
CopyEdit
Hello from Dockerized Java!
Containerization successful 🚀
1)GITHUB ACTIONS:
YAML WORKFLOW FILE:
EVENTS, JOBS, RUNNERS, STEPS AND ACTION
We are checking out the code and running superlinter against it
name: Super-Linter
·
on: push
jobs:

```
super-lint:
  name: Lint code base
  runs-on: ubuntu-latest
  steps:
   - name: Checkout code
    uses: actions/checkout@v2
   - name: Run Super-Linter
    uses: github/super-linter@v3
    env:
     DEFAULT_BRANCH: main
     GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
Wrong code:
import os,sys
def my_function():
 print("This is a test function")
 x=1
 y = 2
 print(x+y)
my_function()
Correct code:
import os
import sys
def my_function():
 print("This is a test function")
 x = 1
 y = 2
```

```
print(x + y)

my_function()

2<sup>nd</sup> wrong code:
def hello():
print("hi")

def bye():
print("bye")
```

correct code :