DOCKERFILE ASSIGNMENT

SCENARIO1 - PYTHON APP INTO DOCKER CONTAINER

Clone this code

https://github.com/praveen1994dec/python-docker.git

Run the below dockerfile1

https://github.com/praveen1994dec/python-docker/blob/main/1-python-simple.Docker file

docker build -f 1-python-simple.Dockerfile -t python-docker . docker run --rm -it -p 8080:8080 python-docker

Run the below dockerfile2

https://github.com/praveen1994dec/python-docker/blob/main/2-python-hot-reload.Dockerfile

docker build -f 2-python-hot-reload.Dockerfile -t python-docker . docker run --rm -it -p 8080:8080 python-docker

Run the below dockerfile3

https://github.com/praveen1994dec/python-docker/blob/main/4.python-ui-static.Dockerfile

docker build -f 4.python-ui-static.Dockerfile -t python-docker . docker run --rm -it -p 8080:8080 python-docker

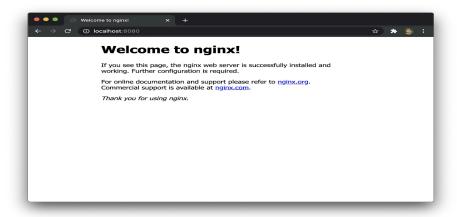
SCENARIO3- DOCKERFILE FOR GOLANG

```
# syntax=docker/dockerfile:1
FROM golang:1.21
WORKDIR /src
COPY <<EOF ./main.go
package main
import "fmt"
func main() {
  fmt.Println("hello, world")
}
EOF
RUN go build -o /bin/hello ./main.go
FROM scratch
COPY --from=0 /bin/hello /bin/hello
CMD ["/bin/hello"]
```

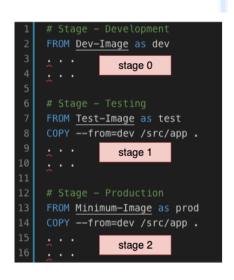
docker build -t golang_filename .

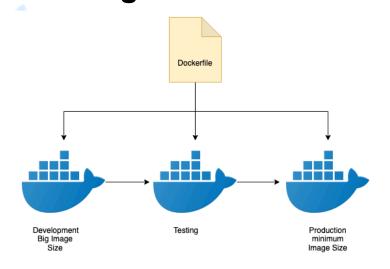
SCENARIO 4 - Running a basic web server using docker run command

docker run -it --rm -d -p 8080:80 --name web nginx



SCENARIO5-MULTI STAGE DOCKERFILE ** Just for understanding





First stage: build the Java application <----->

FROM maven:3.8.1-jdk-11-slim AS build

WORKDIR /app COPY pom.xml .

RUN mvn dependency:go-offline

COPY src/ src/

RUN mvn package

Second stage: copy the built app from the first stage <----->

FROM openjdk:11-slim

WORKDIR /app
COPY --from=build /app/target/Maven-0.0.1-SNAPSHOT.jar .
EXPOSE 80
CMD ["java", "-jar", "Maven-0.0.1-SNAPSHOT.jar"]

