Docker-compose task 2 :

1. Create a Docker file for React based frontend (NodeJS Framework) (use multi staged builds)
- https://github.com/facebook/create-react-app - create a sample react project with the help of this tool
- Dockarize it with multi staged builds

Solutions:
Step 1: Create dockerfile with multistage

=> here we use **multistage** build because for keeping the image size small as possible . large docker images use more time to build and run in production so by the multisatge we can improve performance .

Dockerfile

```
#Stag1 +++++++++
###############
#Pull official base node image
FROM node:alpine as builder
#set working directory
WORKDIR /app
#Copy package.json file
COPY ./package.json ./
#Install node js packages
RUN npm install
#Copy all to docker
COPY . ./
RUN npm run build



#Steg2 +++++++++++
```

```
###################
#Pull nginx alpine offical image
FROM nginx:alpine
#Set working directory to nginx
WORKDIR /usr/share/nginx/html
RUN rm -rf ./*
# Copies static resources from builder stage
COPY --from=builder /app/build .
ENTRYPOINT ["nginx", "-g", "daemon off;"]
```

Step 2: Build image

#docker build -t customreactapp .

Step 3: Run the container from this image

#docker run –it -p 3001:80 –name container1 customreactapp

Step 4 : Screenshot

Edit `src/App.js` and save to reload.

Learn React