

PROGRAM 2

Step 1 : CREATE A REQUIRED FOLDER AND FILE

```
rv24mc028_chethanacs@Elite:~/DEVops/program1$ cd
rv24mc028_chethanacs@Elite:~$ cd DEVops
rv24mc028_chethanacs@Elite:~/DEVops$ mkdir program2
rv24mc028_chethanacs@Elite:~/DEVops$ cd program2
rv24mc028_chethanacs@Elite:~/DEVops/program2$ nano Dockerfile
rv24mc028_chethanacs@Elite:~/DEVops/program2$ nano index.js
```

STEP 2 : npm -y init automatically creates package.json AND add start, build and dependencies

```
"scripts": {
    "start": "node dist/index.js",
    "build": "mkdir -p dist && cp -r *.js dist/"
}
install
npm to
create
package-
lock.json
"keywords": [],
"author": "Chethana",
"license": "ISC",
index.js  package.json
rv24mc028_chethanacs@Elite:~/DEVops/program2$ npm install

up to date, audited 1 package in 165ms

found 0 vulnerabilities
rv24mc028_chethanacs@Elite:~/DEVops/program2$ ls
Dockerfile  index.js  package.json  package-lock.json
```

Step 4 : build command sudo docker build -t program2 and sudo docker run -p 3000:3000 program2

```
rv24mc028_chethanacs@Elite:~/DEVops/program2$ sudo docker build -t program2 .
[+] Building 6.5s (13/13) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 354B
=> [internal] load metadata for docker.io/library/node:20-alpine
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [builder 1/6] FROM docker.io/library/node:20-alpine@sha256:6178e78b972f79c335df281f4b7674a2d85071aae2af020ffa39f0a770265435
=> [internal] load build context
=> => transferring context: 445B
=> => CACHED [builder 2/6] WORKDIR /app
=> [builder 3/6] COPY package.json package-lock.json .
=> [builder 4/6] RUN npm install
=> [builder 5/6] COPY .
=> [builder 6/6] RUN npm run build
=> [stage-1 4/5] COPY --from=builder /app/dist ./dist
=> [stage-1 5/5] RUN npm install --production
=> exporting to image
=> => exporting layers
=> => writing image sha256:aedcd86c7004874e2fc574266f7157867197e9ce3af12d763a7af7e82304c1ab
=> => naming to docker.io/library/program2
rv24mc028_chethanacs@Elite:~/DEVops/program2$ sudo docker run -p 3000:3000 program2
Server running on port 3000
```

Step 5 : open http://localhost:3000 in web browser .

OUTPUT :



Hello from multi-stage Docker!