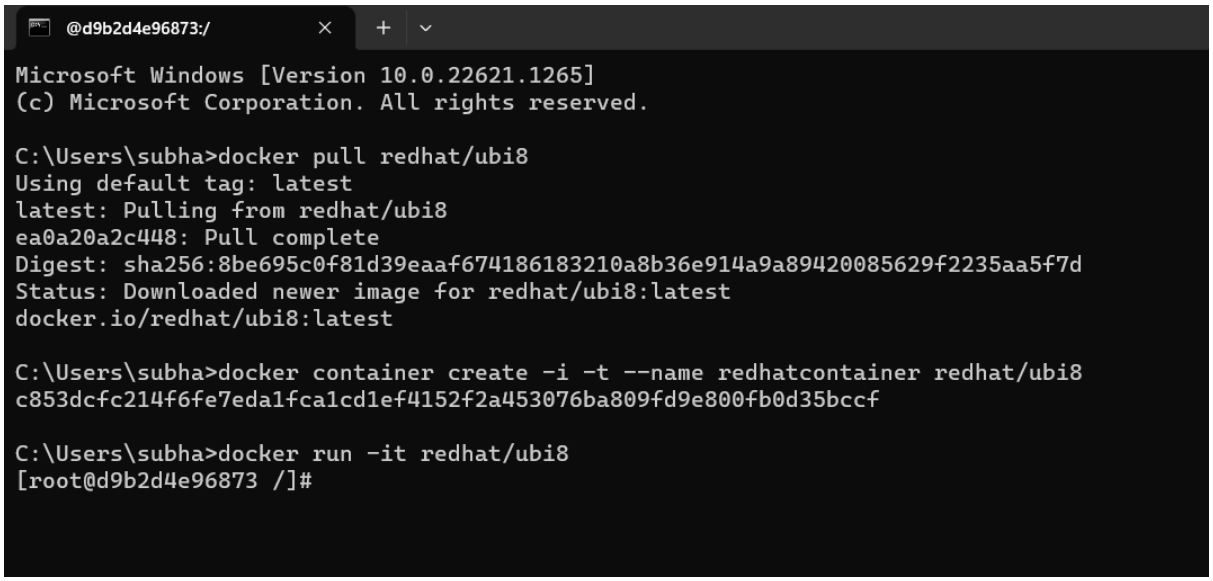
ASSIGNMENT—2

Q1) Pull any image from the docker hub, create its container, and execute it showing the output.

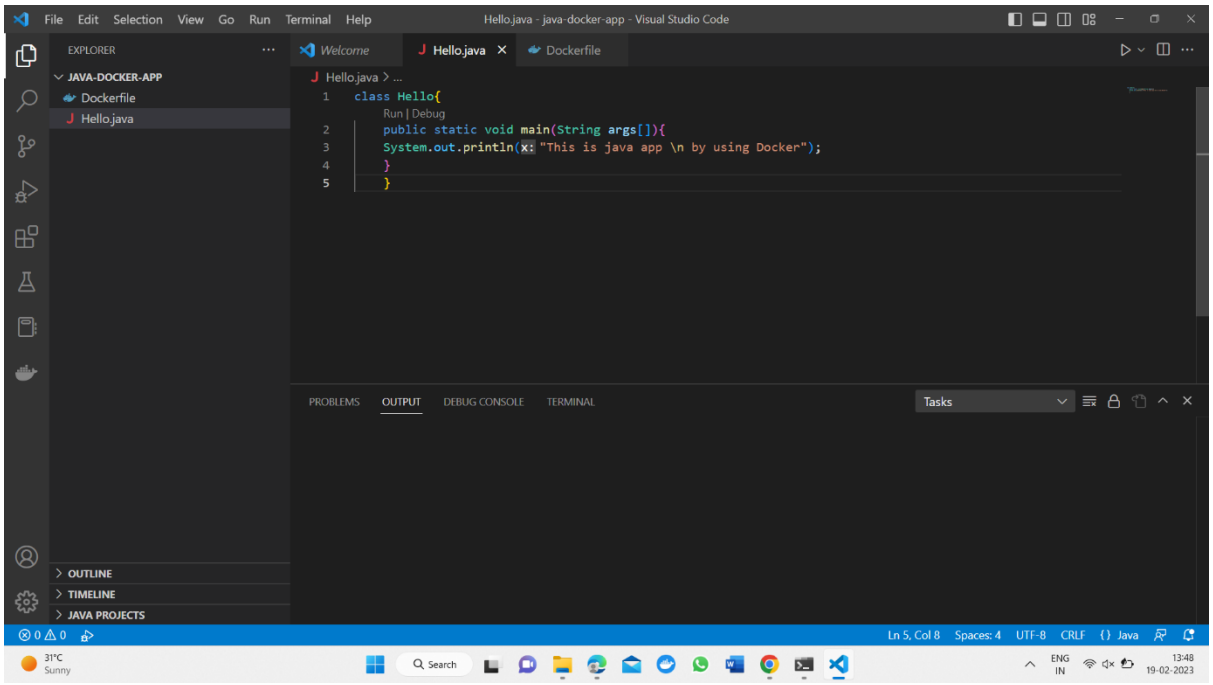
Answer:

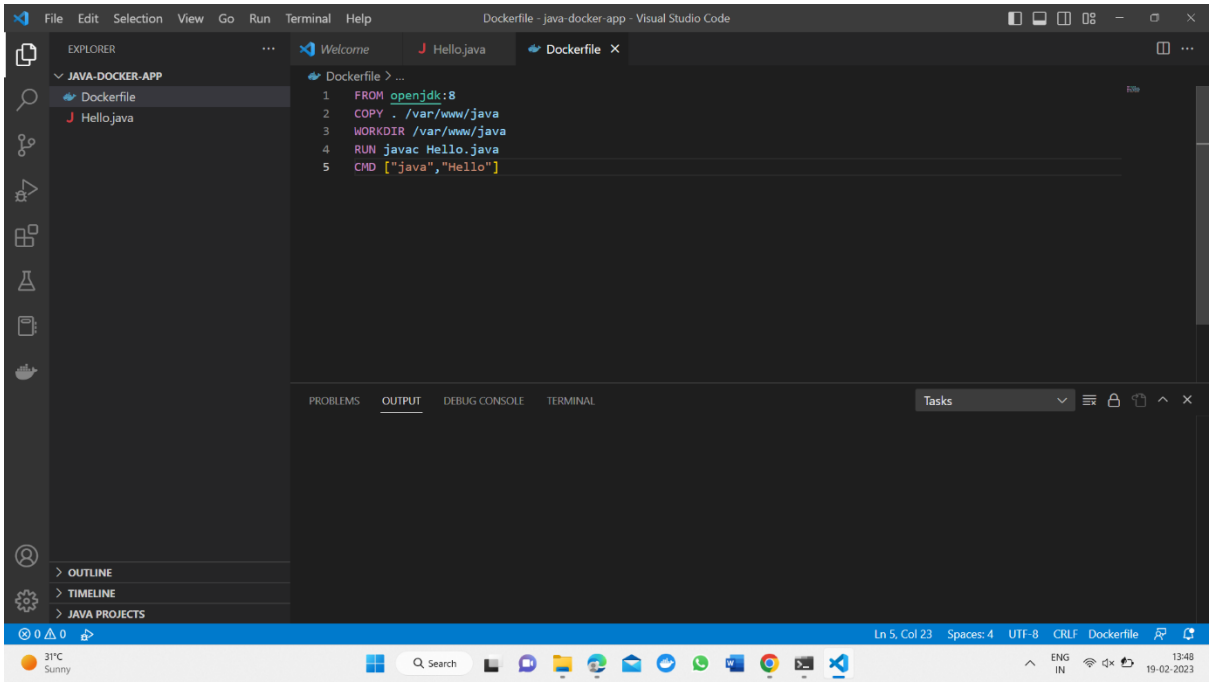
- To download a particular image, or set of images
  use : **docker pull**
- The **docker container create** command creates a new container from the specified image, without starting it.
- The **docker run** command first **creates** a writeable container layer over the specified image, and then **starts** it using the specified command.

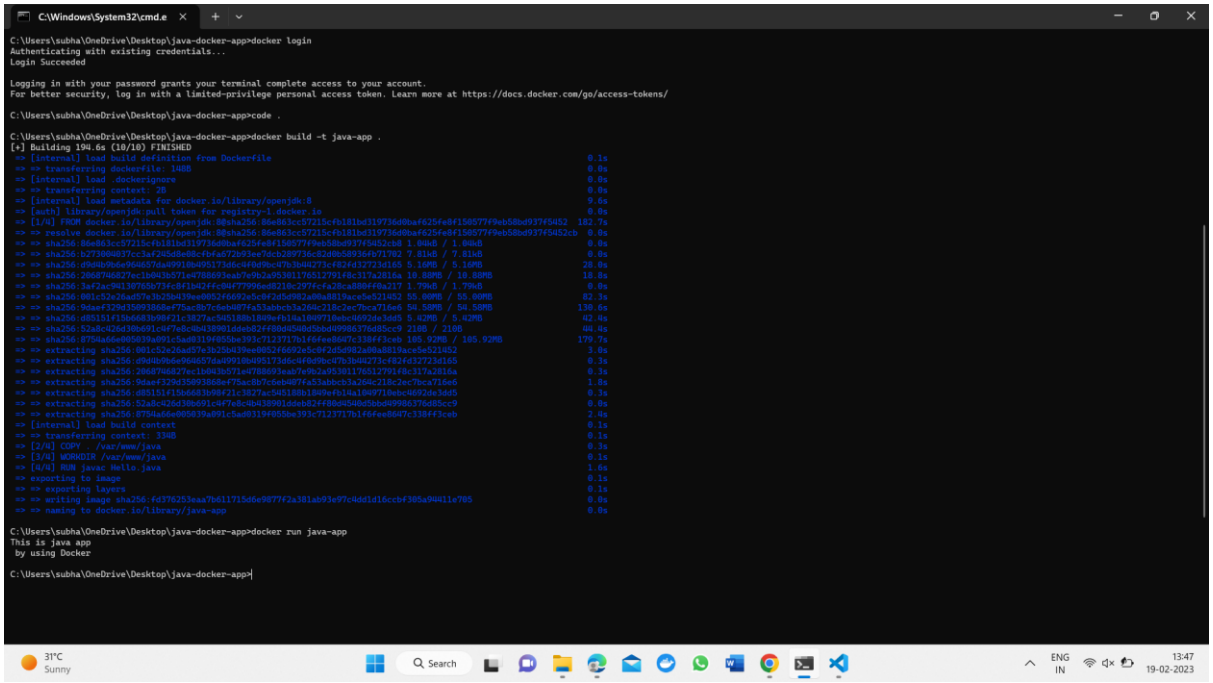


Q2) Create the basic java application, generate its image with necessary files, and execute it with docker.

Answer:






C:\Windows\System32\cmd.e
C:\Users\subha\OneDrive\Desktop\java-docker-app>docker login
Authenticating with existing credentials...
Login Succeeded
Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
C:\Users\subha\OneDrive\Desktop\java-docker-app>code .
C:\Users\subha\OneDrive\Desktop\java-docker-app>docker build -t java-app .
[+] Building 194.6s (10/10) FINISHED
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 148B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:8 9.6s
=> [auth] library/openjdk:pull token for registry-1.docker.io 0.0s
=> [1/4] FROM docker.io/library/openjdk:8@sha256:86e863cc57215cfb181bd319736d0baf625fe8f150577f9eb58bd937f5452 182.7s
=> => resolve docker.io/library/openjdk:8@sha256:86e863cc57215cfb181bd319736d0baf625fe8f150577f9eb58bd937f5452cb 0.0s
=> => sha256:86e863cc57215cfb181bd319736d0baf625fe8f150577f9eb58bd937f5452cb8 1.86kB / 1.86kB 0.0s
=> => sha256:b273004037cc5af245d8e08cfbfa672b93ee7dcb289736c82d0b58936fb71702 7.81kB / 7.81kB 0.0s
=> => sha256:d9d4b9b6e964657da49910b495173d6c4f0d9bc47b3b4273cf82fd32723d165 5.16MB / 5.16MB 28.0s
=> => sha256:2968746827ec1b4b3b571e4788693eab7e9b2a9530117651279148c317a2816a 10.88MB / 10.88MB 18.8s
=> => sha256:3af2ac9813076bb73fc8f1b42f4c0bf7996ed8218c2976cfa28ca80bf0a217 1.79kB / 1.79kB 0.0s
=> => sha256:001c52e26ad57e3b25bf39ee0052f6692e5c0f2d5d982a00a8819ace5e521452 55.00MB / 55.00MB 82.3s
=> => sha256:9daef329d35093868ef75ac8b7c6ebf87fa53abbcb3a264c218c2ec7bca716e6 54.58MB / 54.58MB 130.6s
=> => sha256:d85151f15b6683b98f21c3827ac5451888b1849efb1f4a1049710ebc4692de3dd5 5.42MB / 5.42MB 42.4s
=> => sha256:52a8c426d30b691c4f7e8c4b438901ddeb82ff80d8548d5bbd49986376d85cc9 210B / 210B 44.4s
=> => sha256:8754a66e005039a091c5ad0319f055be393c7123717b1f6fee8647c338ff3ceb 105.92MB / 105.92MB 179.7s
=> => extracting sha256:001c52e26ad57e3b25bf39ee0052f6692e5c0f2d5d982a00a8819ace5e521452 3.0s
=> => extracting sha256:d9d4b9b6e964657da49910b495173d6c4f0d9bc47b3b4273cf82fd32723d165 0.3s
=> => extracting sha256:2968746827ec1b4b3b571e4788693eab7e9b2a9530117651279148c317a2816a 0.3s
=> => extracting sha256:9daef329d35093868ef75ac8b7c6ebf87fa53abbcb3a264c218c2ec7bca716e6 1.8s
=> => extracting sha256:d85151f15b6683b98f21c3827ac5451888b1849efb1f4a1049710ebc4692de3dd5 0.3s
=> => extracting sha256:52a8c426d30b691c4f7e8c4b438901ddeb82ff80d8548d5bbd49986376d85cc9 0.0s
=> => extracting sha256:8754a66e005039a091c5ad0319f055be393c7123717b1f6fee8647c338ff3ceb 2.4s
=> [internal] load build context 0.1s
=> => transferring context: 334B 0.1s
=> [2/4] COPY . /var/www/java 0.3s
=> [3/4] WORKDIR /var/www/java 0.1s
=> [4/4] RUN javac Hello.java 1.6s
=> exporting to image 0.1s
=> => exporting layers 0.1s
=> => writing image sha256:fd376253eaa7b611715d6e9877f2a381ab93e97c4dd1d16ccbf385a94411e705 0.0s
=> => naming to docker.io/library/java-app 0.0s
C:\Users\subha\OneDrive\Desktop\java-docker-app>docker run java-app
This is java app
by using Docker
C:\Users\subha\OneDrive\Desktop\java-docker-app>
31°C
Sunny
Search
ENG
IN
13:47
19-02-2023