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

docker pull is used to download the image from the docker daemon.

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.19045.2604]

(c) Microsoft Corporation. All rights reserved.

D:\Annapurna>docker pull centos

Using default tag: latest
latest: Pulling from library/centos
a1d0c7532777: Pull complete

Digest: sha256:a27fd8080b517143cbbbab9dfb7c8571c40d67d534bbdee55bd6c473f432b177

Status: Downloaded newer image for centos:latest
docker.io/library/centos:latest

D:\Annapurna>_
```

docker run command creates running containers and executes it.

```
D:\Annapurna>docker pull centos
Using default tag: latest
latest: Pulling from library/centos
Digest: sha256:a27fd8080b517143cbbbab9dfb7c8571c40d67d534bbdee55bd6c473f432b177
Status: Image is up to date for centos:latest
docker.io/library/centos:latest

D:\Annapurna>docker run -it centos
[root@bc4cd9b4747d /]# 1s
bin dev etc home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var
[root@bc4cd9b4747d /]# cat bin
cat: bin: Is a directory
[root@bc4cd9b4747d /]# vi demo
[root@bc4cd9b4747d /]# cat demo
centos was pulled and runned using docker desktop
[root@bc4cd9b4747d /]#
[root@bc4cd9b4747d /]#
```

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

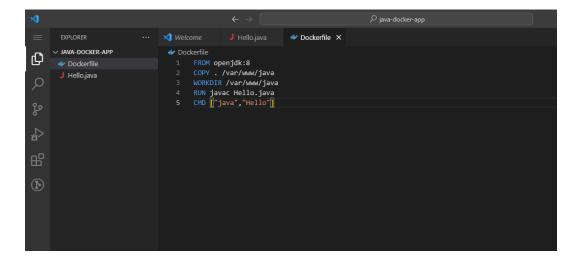
First I have created a directory using mkdir command.

```
D:∖Annapurna>mkdir java-docker-app
```

I have created a Hello.java file in the java-docker-app folder and saved it.

```
EXPLORER ... | Melcome | J Hellojava | X | Welcome | J Hellojava | 1 | class Hello{ | 2 | public static void main(String args[])[ | 3 | System.out.println("This is Java Application created using Docker Desktop"); | 5 | }
```

Then I have created another file named Dockerfile and added the below content in it.



Now I have changed the directory to java-docker-app.

```
D:\Annapurna>cd java-docker-app
D:\Annapurna\java-docker-app>_
```

I have used the build command to create a java-app image docker build –t java-app.

```
| Comparison | Com
```

To run the java-app application used the following command docker run java-app

```
© C:\Windows\System32\cmd.exe

=> => naming to docker.io/library/java-app

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

D:\Annapurna\java-docker-app>docker run java-app

This is Java Application created using Docker Desktop

D:\Annapurna\java-docker-app>
```