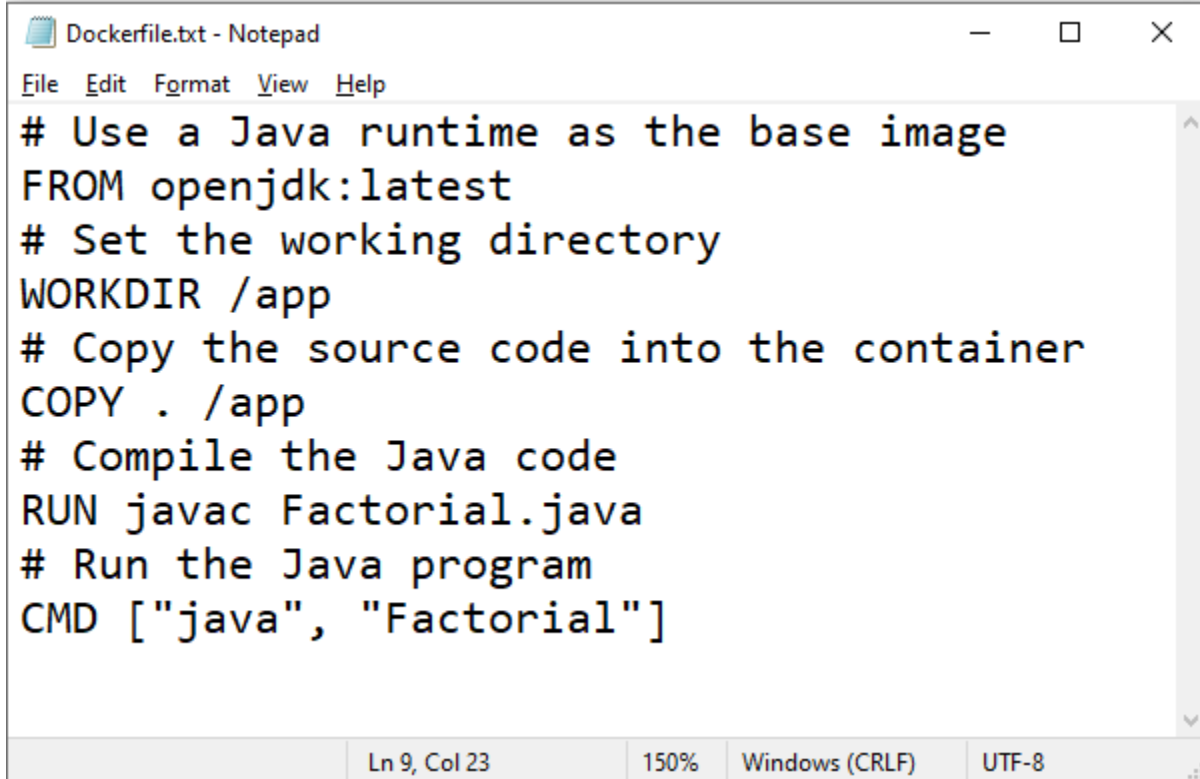


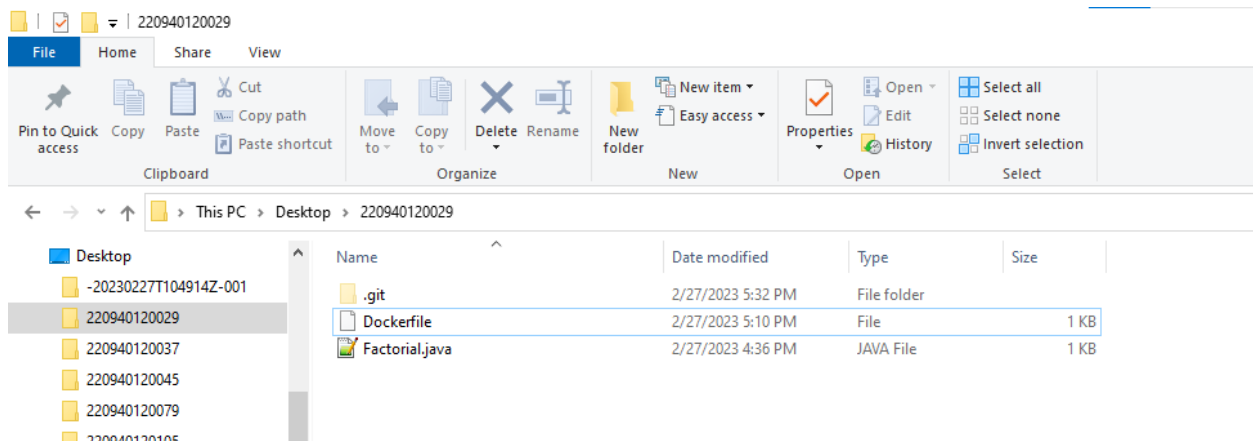
Question 2

Create Dockerfile in current directory



```
# Use a Java runtime as the base image
FROM openjdk:latest
# Set the working directory
WORKDIR /app
# Copy the source code into the container
COPY . /app
# Compile the Java code
RUN javac Factorial.java
# Run the Java program
CMD ["java", "Factorial"]
```

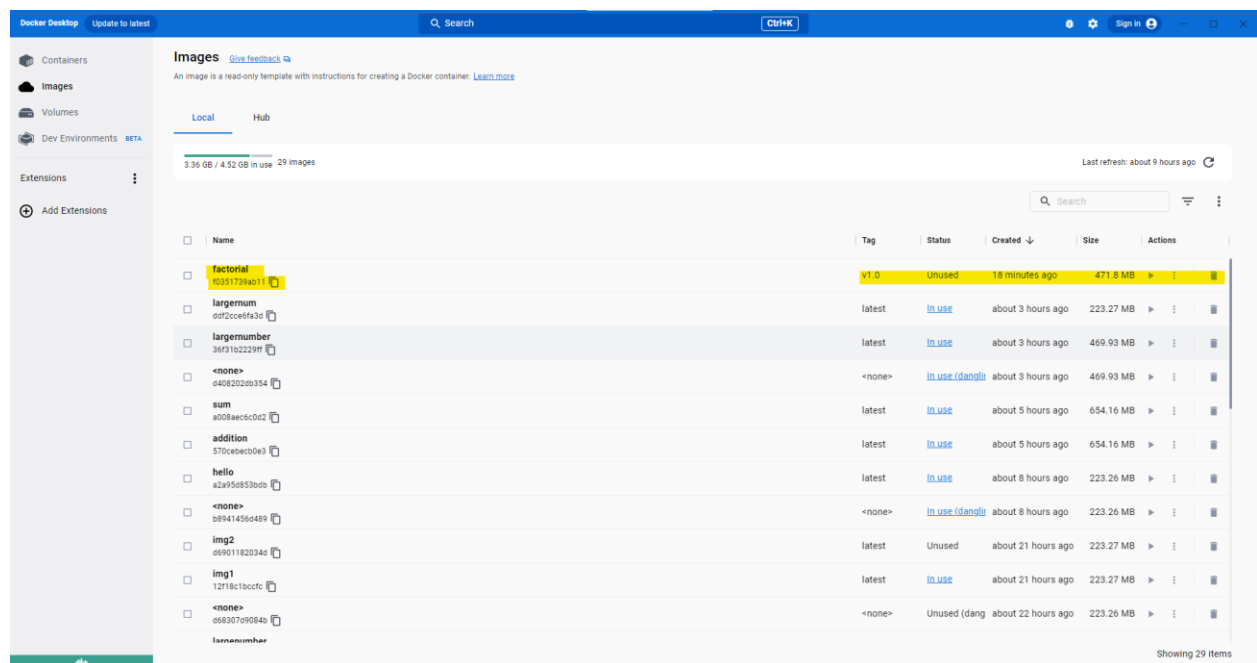
Ln 9, Col 23 150% Windows (CRLF) UTF-8



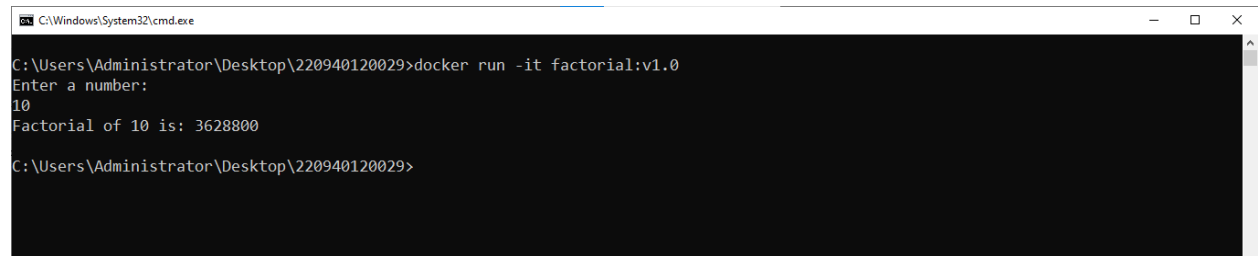
docker build --tag "factorial:v1.0"

```
C:\Windows\System32\cmd.exe
C:\Users\Administrator\Desktop\220940120029>docker build --tag "factorial:v1.0" .
[+] Building 0.3s (9/9) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 32B                                              0.0s
=> [internal] load .dockerignore                                                0.0s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/openjdk:latest              0.0s
=> [1/4] FROM docker.io/library/openjdk:latest                                0.0s
=> [internal] load build context                                              0.1s
=> => transferring context: 2.83kB                                             0.0s
=> CACHED [2/4] WORKDIR /app                                                  0.0s
=> CACHED [3/4] COPY . /app                                                  0.0s
=> CACHED [4/4] RUN javac Factorial.java                                       0.0s
=> exporting to image                                                         0.0s
=> => exporting layers                                                         0.0s
=> => writing image sha256:f0351739ab11f447e61a00bea3ed0cccc204d9eeb6a4407bf0f9bea9ce89a632f 0.0s
=> => naming to docker.io/library/factorial:v1.0                             0.0s

C:\Users\Administrator\Desktop\220940120029>
```



`docker run -it factorial:v1.0`



```
C:\Windows\System32\cmd.exe
C:\Users\Administrator\Desktop\220940120029>docker run -it factorial:v1.0
Enter a number:
10
Factorial of 10 is: 3628800
C:\Users\Administrator\Desktop\220940120029>
```

The screenshot shows a Windows command prompt window with the title bar "C:\Windows\System32\cmd.exe". The command prompt displays the execution of the command `docker run -it factorial:v1.0`. The output shows a prompt "Enter a number:" followed by the input "10", and then the result "Factorial of 10 is: 3628800". The prompt returns to the command line, showing the current directory as `C:\Users\Administrator\Desktop\220940120029>`.