

Herovired Assignment -2

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

A: I Pulled a centos image from docker hub using the command "docker pull centos". Then I created a container to the image using the command "docker container create -i -t --name CentosConatiner centos". To run the container I gave "docker run -it centos" command. Finally I executed echo command using the container.

```
@5b9d42f81d89/
Microsoft Windows [Version 10.0.22000.1455]
(c) Microsoft Corporation. All rights reserved.

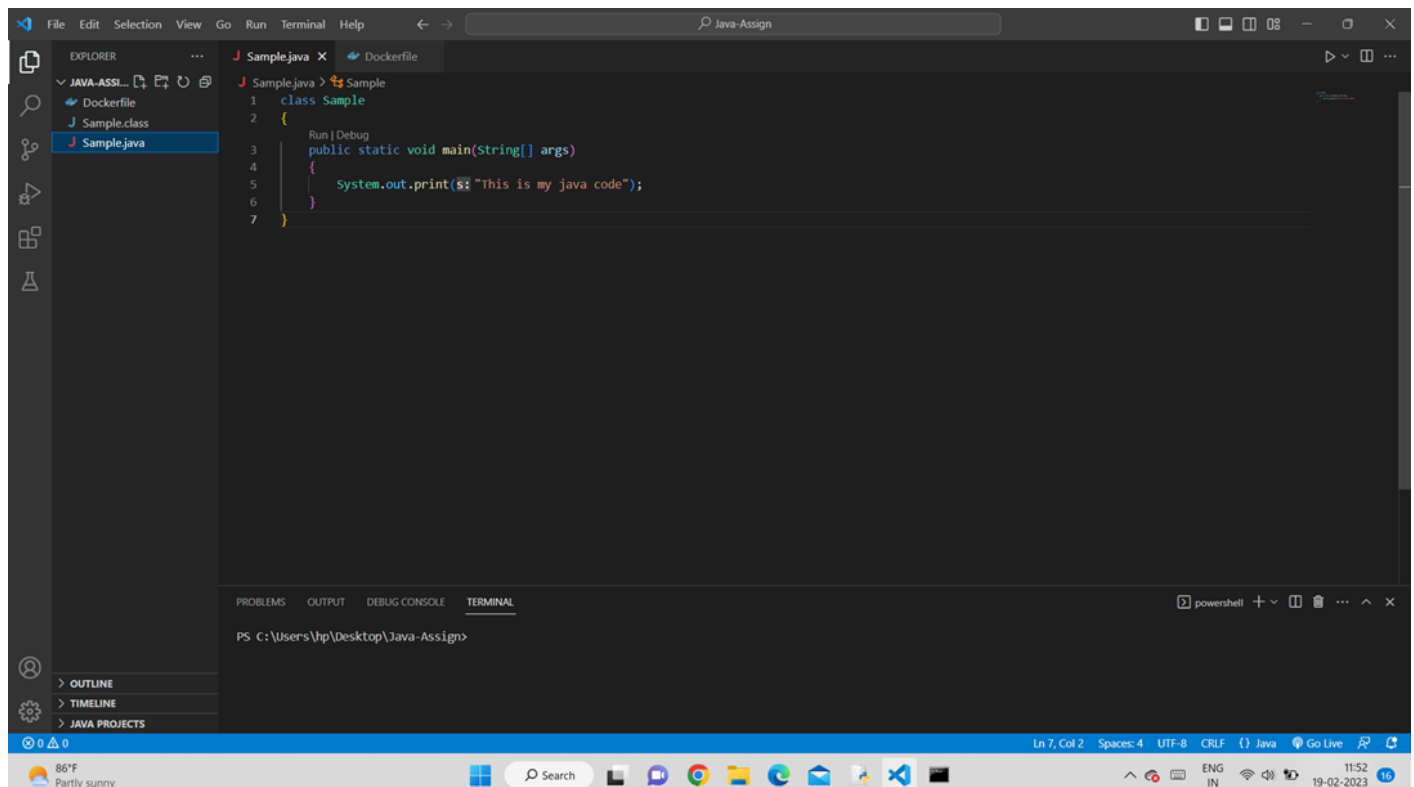
C:\Users\hpx>docker pull centos
Using default tag: latest
latest: Pulling from library/centos
a1d0c7532777: Pull complete
Digest: sha256:a27fd8080b517143cbbab9dfb7c8571c40d67d534bbdee55bd6c473f432b177
Status: Downloaded newer image for centos:latest
docker.io/library/centos:latest

C:\Users\hpx>docker container create -i -t --name CentosContainer centos
30b77aff6d327989b323e3ec60c75c88b68e732867167d242bc5b4a4ae965d3d

C:\Users\hpx>docker run -it centos
[root@5b9d42f81d89 /]# echo "Hello, My centos image were pulled, container created to it and now I am running and executing it."
Hello, My centos image were pulled, container created to it and now I am running and executing it.
[root@5b9d42f81d89 /]#
```

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

A: I have created Sample java application file and Docker file as shown in following screenshots.



The screenshot shows the Visual Studio Code editor with two files open: `Sample.java` and `Dockerfile`. The `Sample.java` file contains a simple Java class with a `main` method that prints "This is my java code". The `Dockerfile` file is empty. The terminal at the bottom shows the command prompt at `C:\Users\hpx\Desktop\Java-Assign>`.

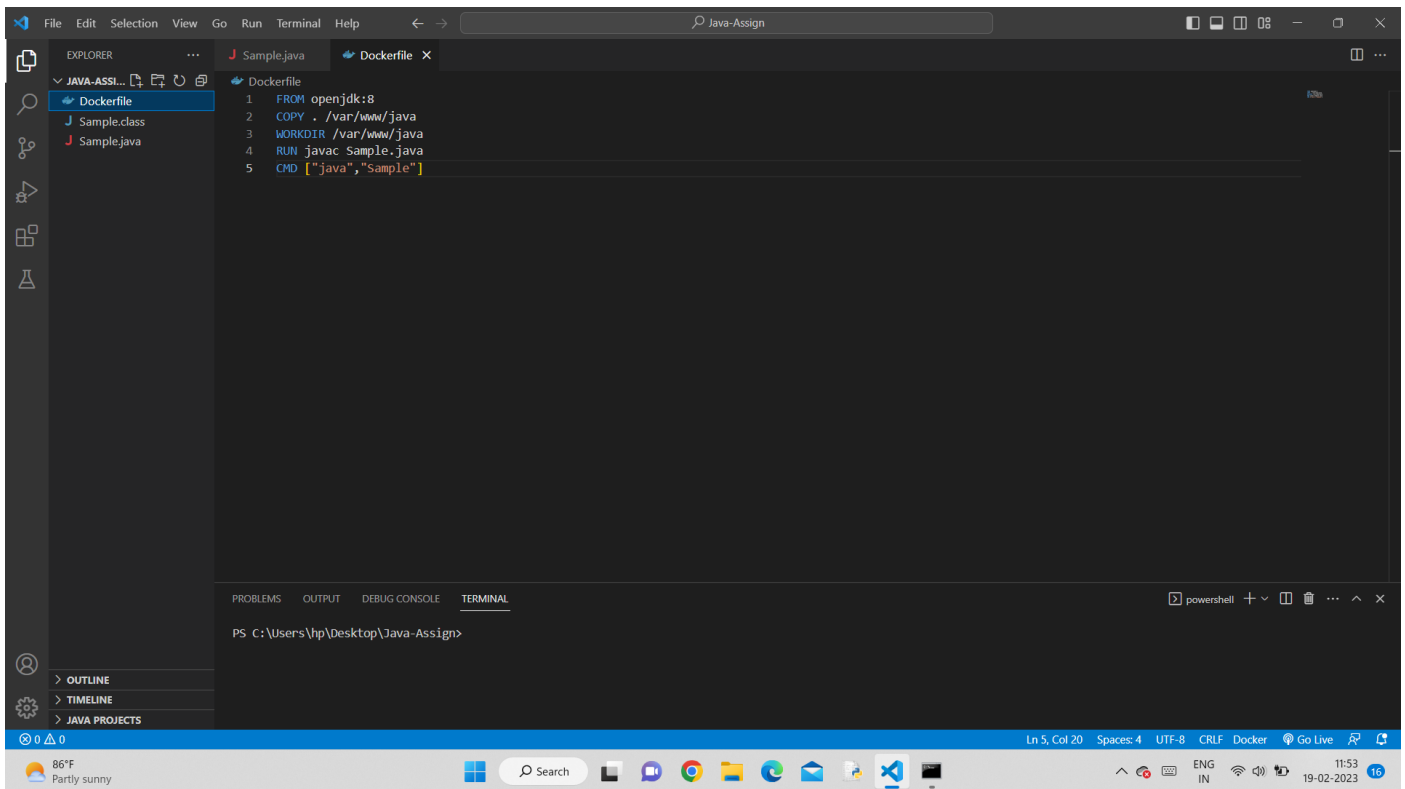
```
File Edit Selection View Go Run Terminal Help
Java-Assign

EXPLORER
  JAVA-ASSI...
  Dockerfile
  Sample.class
  Sample.java

Sample.java
1 class Sample
2 {
3     Run | Debug
4     public static void main(String[] args)
5     {
6         System.out.print(ss "This is my java code");
7     }
8 }

Dockerfile

TERMINAL
PS C:\Users\hpx\Desktop\Java-Assign>
```



To generate image to java application I use the command “docker build -t javasample .”. Here javasample is a image name.

To run the container I gave “docker run javasample” command.

