

**B1.** Create a docker image for an application stored in local repository and run the application using docker image.

Application Source code :

```
public class basic {
    public static void main(String[] args) {
        System.out.println("hello world!!!");
    }
}
```

```
// Source code is decompiled from a .class file using FernFlower decompiler
(from IntelliJ IDEA).
public class basic {
    public basic() {
    }

    public static void main(String[] var0) {
        System.out.println("hello world!!!");
    }
}
```

Dockerfile :

```
FROM openjdk
WORKDIR /app
COPY . /app
RUN ["javac" , "basic.java"]
CMD [ "java" , "basic" ]
```

**Command to Build image: docker build -t 5c .**

docker build is the command to build a Docker image.

-t 5c tags the image with the name 5c.

. specifies the current directory as the build context (where the Dockerfile is located).

**Command to run the image: docker run --name tank1 5c**

docker run runs a container from an image.

--name tank1 assigns the container the name tank1.

5c is the image name/tag you want to run.

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<

 tank1

89a98cba1ba9

 Scalatest

STATUS

Exited (0) (8 minutes ago)

Logs

Inspect

Bind mounts

Exec

Files

Stats

hello world!!!

Engine running

RAM 0.87 GB CPU 0.10% Disk: 1.90 GB used (limit 1006.85 GB)

Terminal

New version available

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Give feedback

Container CPU usage

No containers are running.

Container memory usage

No containers are running.

Show charts


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Only show running containers


	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	dazzling_bose	16d2392157c2	Scalatest		N/A	10 minutes ago	<div><div></div><div></div><div></div><div></div></div>
<input type="checkbox"/>	magical_feynman	2168304780d1	Scalatest		N/A	10 minutes ago	<div><div></div><div></div><div></div><div></div></div>
<input type="checkbox"/>	tank1	89a98cba1ba9	Sc		N/A	8 minutes ago	<div><div></div><div></div><div></div><div></div></div>

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