

Assignment 2b

Here are the steps on how to create Docker Container Environment :

1) Download docker from Docker documentation website

2) Then install it

3) And start docker application

4) Then open cmd

5) for checking docker version

>docker -v

6) for checking docker images

> docker images

7) for checking which container available

> docker ps

8) for pulling oenjdk image in docker

>docker pull openjdk

9) again step 6

10) again 7 for check images

11) for run this openjdk image using following command

```
>docker run --name JAVA -it -d openjdk
```

here it = for interactive

-d = for detach means for running image in background

12) again step 6

13) for execution

```
>docker exec -it JAVA jshell
```

Explanation of cmd command = docker exec -it name_of_image command_for_run_it

14) After execution the show like this

```
jshell>
```

15) For example to check the java code is running or not

```
jshell>System.out.println("Hello docker");
```

16) Then declare variable one which a, then hit the enter button

```
jshell>int a=10;
```

17) Then declare variable one which b, then hit the enter button

```
jshell>int b=20;
```

18) Then declare variable one which c, then hit the enter button

```
jshell>int c;
```

19) Then add two variable and store in one, then hit the enter button

```
jshell>c=a+b;
```

20) Then show the out put of addition of two numbers, then hit the enter button

```
jshell>System.out.println(a+b);
```

21) for out from running the container image, then hit the enter button

```
jshell>/exit
```

22) step 6 for check which container is runing

23) for stop container

```
>docker stop container_id
```

24) for remove container

```
>docker container rm container_id
```

25) step 6