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

Pulling an image:

```
Aicrosoft Windows [Version 10.0.22000.1455]
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C:\Users\RAMALAKSHMI>docker pull centos
Jsing default tag: latest
Latest: Pulling from library/centos
Digest: sha256:a27fd80890b517143cbbbab9dfb7c8571c40d67d534bbdee55bd6c473f432b177
Status: Image is up to date for centos:latest
docker.io/library/centos:latest
C:\Users\RAMALAKSHMI>
```

Running it:

```
dicrosoft Windows [Version 10.0.22000.1455]

(c) Microsoft Corporation. All rights reserved.

:\Users\RAMALAKSHMI>docker run -it centos

[root@94f9ce47f48a /] # ls

pin dev etc home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var

[root@94f9ce47f48a /] # _
```

Creating a file named f1

```
@94f9ce47f48a:/

Microsoft Windows [Version 10.0.22000.1455]

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C:\Users\RAMALAKSHMI>docker run -it centos

[root@94f9ce47f48a /]# ls

bin dev etc home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var

[root@94f9ce47f48a /]# vi f1_
```

Entering contents into f1

```
This is file1 content

I am doing well

Mhat about you?
```

Displaying Contents of f1 using cat command

```
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C:\Users\RAMALAKSHMI>docker run -it centos
[root@94f9ce47f48a /]# ls
pin dev etc home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var
[root@94f9ce47f48a /]# vi f1
[root@94f9ce47f48a /]# cat f1
This is file1 content
I am doing well
What about you?
[root@94f9ce47f48a /]#
```

Creation of f2

[root@94f9ce47f48a /]# vi f2

Entering contents into f2

```
©94f9ce47f48a:/

This is file2 content

My work is done______
```

Displaying file f2

```
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C:\Users\RAMALAKSHMI>docker run -it centos
[root@94f9ce47f48a /] # 1s
bin dev etc home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var
[root@94f9ce47f48a /] # vi f1
[root@94f9ce47f48a /] # cat f1
This is file1 content
I am doing well
What about you?
[root@94f9ce47f48a /] # vi f2
[root@94f9ce47f48a /] # cat f2
This is file2 content
My work is done
[root@94f9ce47f48a /] # S
```

Coping contents of f1 to f3 using copy commands

```
[root@94f9ce47f48a /]# cat f1
This is file1 content
I am doing well
What about you?
[root@94f9ce47f48a /]# cp f1 f3
[root@94f9ce47f48a /]# cat f3
This is file1 content
I am doing well
What about you?
[root@94f9ce47f48a /]# ls
bin etc f2 home lib64 media opt root sbin sys usr
dev f1 f3 lib lost+found mnt proc run srv tmp var
[root@94f9ce47f48a /]# __
```

Removing file f2

```
[root@94f9ce47f48a /]# cp f1 f3
[root@94f9ce47f48a /]# cat f3
This is file1 content
I am doing well
What about you?
[root@94f9ce47f48a /]# ls
bin etc f2 home lib64 media opt root sbin sys usr
dev f1 f3 lib lost+found mnt proc run srv tmp var
[root@94f9ce47f48a /]# m f2
rm: remove regular file 'f2'? y
[root@94f9ce47f48a /]# ls
bin dev etc f1 f3 home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var
[root@94f9ce47f48a /]# S_
```

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

• I have created a folder app-java-doc in documents folder and switched to that using cd command.

```
Microsoft Windows [Version 10.0.22000.1455]
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C:\Users\RAMALAKSHMI>cd Documents

C:\Users\RAMALAKSHMI\Documents>mkdir app-java-doc

C:\Users\RAMALAKSHMI\Documents>cd app-java-doc

C:\Users\RAMALAKSHMI\Documents\cd app-java-doc>
```

• Opened that folder in Visual studio code and created a java file named "details".

Created a Dockerfile

• Finally program executed successfully and below is the respective output.

```
C:\Users\RAMALAKSHMI\Documents\app-java-doc>docker run javaapp
My name is :Ramalakshmi
My rollno is :20A91A0579
Completed my second assignment
C:\Users\RAMALAKSHMI\Documents\app-java-doc>
```