## **Assignment No-4**

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```
Steps to create a JAVA based JAR file.
sudo yum update -y
sudo yum install java-1.8.0-openjdk -y
java -version
sudo alternatives --config java
java -version
sudo vim HelloWorld.java
public class HelloWorld {
public static void main(String[] args){
System.out.println("Hello World :) ");
sudo yum install java-devel
javac HelloWorld.java
sudo vim manifest.txt
Manifest-Version: 1.0
Created-By: Me
Main-Class: HelloWorld
jar cfm HelloWorld.jar manifest.txt HelloWorld.class
java -jar HelloWorld.jar
Now let's run the same JAR file form Docker-based container
sudo yum install docker
sudo service docker start
sudo usermod -a -G docker ec2-user
sudo vim Dockerfile
FROM java:8
WORKDIR /
ADD HelloWorld.jar HelloWorld.jar
EXPOSE 8080
CMD java -jar HelloWorld.jar
sudo docker build -t helloworld .
sudo docker run helloworld
```

## Pushing the image in Docker hub:

docker login --username=niranjanchavan
docker image ls
docker image tag helloworld niranjanchavan/helloworld-java:v1
docker push niranjanchavan/helloworld-java:v1

Pulling the image in Ubuntu Server and running container from 'niranjanchavan/helloworld-java:v1'

sudo apt update

sudo apt install docker.io

docker info

sudo docker pull niranjanchavan/helloworld-java:v1

sudo docker image Is

sudo docker container run niranjanchavan/helloworld-java:v1

Hello World:)