#### Experiment-5



#### **Prepared By**

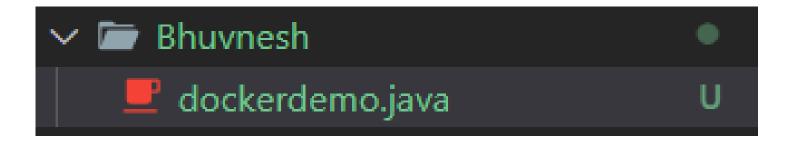
#### **Bhuvnesh Sanathra**

Semester-7



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• Create one Java application and compile it with javac



```
class dockerdemo{
   Run|Debug
   public static void main(String[] args) {
       System.out.println(x:"Bhuvnesh Sanathra");
}
```

• Create one DockerFile application

```
✓ ► Bhuvnesh
✓ dockerdemo.class
✓ dockerdemo.java
Dockerfile
```

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

- Create image using DockerFile
  - # docker build -t myjavaapp .

```
PS C:\Users\bhuvn\Desktop\Placement Preparation\Repository\TechTitans\Microservices Java\Bhuvnesh> docker build -t myjavaapp .
[+] Building 9.0s (5/9)
                                                                                                                                                 docker:default
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 130B
                                                                                                                                                           0.0s
=> [internal] load metadata for docker.io/library/openjdk:latest
=> [auth] library/openjdk:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/openjdk:latest@sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f
=> => resolve docker.io/library/openjdk:latest@sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f
                                                                                                                                                           0.05
=> sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f 1.04kB / 1.04kB
=> => sha256:fe05457a5e9b9403f8e72eeba507ae80a4237d2d2d3f219fa62ceb128482a9ee 954B / 954B
 => sha256:71260f256d19f4ae5c762601e5301418d2516ca591103b1376f063be0b7ba056 4.46kB / 4.46kB
=> => sha256:197c1adcd755131915cd019bdd58658d44445b3638f65449932c18ee39b6047c 25.17MB / 44.56MB
 => => sha256:57b698b7af4b18900b53c768746b1dfb603dfb9aec1eea328fdac86d37001e2a 1.05MB / 12.26MB
```

Check image

# docker images

```
PS C:\Users\bhuvn\Desktop\Placement Preparation\Repository\TechTitans\Microservices Java\Bhuvnesh> docker images
REPOSITORY
            TAG
                      IMAGE ID
                                     CREATED
                                                      SIZE
                      db4be7eb5769
                                     59 seconds ago
myjavaapp
             latest
                                                      470MB
nginx
             latest
                      e784f4560448
                                     2 weeks ago
                                                      188MB
                                     3 weeks ago
             latest
                       ff65a94ec485
mongo
                                                      795MB
```

Run it

# docker run --name java1 myjavaapp

PS C:\Users\bhuvn\Desktop\Placement Preparation\Repository\TechTitans\Microservices\_Java\Bhuvnesh> docker run --name java1 my javaapp
Bhuvnesh Sanathra

Check container

# docker ps -a

```
PS C:\Users\bhuvn\Desktop\Placement Preparation\Repository\TechTitans\Microservices Java\Bhuvnesh> docker ps -a
CONTAINER ID
              IMAGE
                              COMMAND
                                                       CREATED
                                                                            STATUS
                                                                                                             PORTS
                                                                                                                                       NAMES
75964513c712
              myjavaapp
                              "java dockerdemo"
                                                      About a minute ago
                                                                           Exited (0) About a minute ago
                                                                                                                                       java1
              mongo:latest
                              "docker-entrypoint.s..."
                                                      About an hour ago
                                                                           Up About an hour
                                                                                                                                      bhuvimongo
                                                                                                             0.0.0.0:2717->27017/tcp
532da352c1d1
              nginx:latest
                                                                            Exited (255) About an hour ago
4619dcdc5cfd
                              "/docker-entrypoint..."
                                                      6 hours ago
                                                                                                            0.0.0.0:80->80/tcp
                                                                                                                                       bhuvi
```

#### ThankYou