

Advanced Python Programming LAB ASSIGNMENT 19 DOCKER EXPERIMENTATION.

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COURSE CODE: CSI 3007.

QUESTION NUMBER 1:

WORKING AND EXPERIMENTATION ON DOCKER DESKTOP.

```
DockerAssessment.java - Notepad

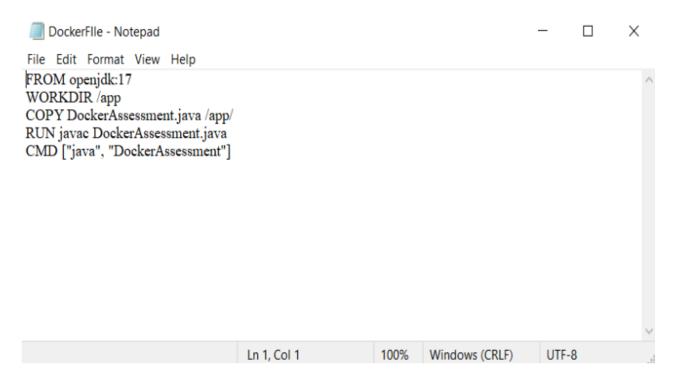
File Edit Format View Help
import java.util.*;
class DockerAssessment

{
public static void main(String[] args)

{
String regNo;
String name;
String date;
regNo="22MIC0102";
name ="Gokulesh";
date =new Date().toString();
System.out.println(regNo+"-"+name);
System.out.println("Compiled at :"+date);
}

}
```

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TERMINAL OUTPUT:

C:\Users\Lenovo\OneDrive\Desktop\gokuleshda>javac DockerAssessment.java
C:\Users\Lenovo\OneDrive\Desktop\gokuleshda>java DockerAssessment
22MIC0102-Gokulesh

```
C:\Users\Lenovo\OneDrive\Desktop\gokuleshda>docker buildx build -f DockerFile ./ -t dockerassessment:22MIC0102
[+] Building 4.9s (10/10) FINISHED
                                                                                                   docker:desktop-linux
                                                                                                                   0.05
=> => transferring dockerfile: 171B
                                                                                                                   0.05
=> [auth] library/openjdk:pull token for registry-1.docker.io
                                                                                                                   0.05
=> [internal] load .dockerignore
                                                                                                                   0.1s
=> => transferring context: 2B
                                                                                                                   0.05
=> [1/4] FROM docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaeaf9f87662e7b3f38cb7
                                                                                                                  0.05
=> [internal] load build context
                                                                                                                   0.1s
=> CACHED [2/4] WORKDIR /app
                                                                                                                   0.0s
                                                                                                                   0.0s
=> [4/4] RUN javac DockerAssessment.java
                                                                                                                   2.05
=> exporting to image
                                                                                                                   0.1s
=> => exporting layers
                                                                                                                   0.1s
=> => writing image sha256:f902e745b9ee27fb76c52236c91b3fcff9bc6be5ab3c1999c9744f278bf91a73
                                                                                                                   0.05
=> => naming to docker.io/library/dockerassessment:22MIC0102
                                                                                                                   0.05
   View a summary of image vulnerabilities and recommendations → docker scout quickview
:\Users\Lenovo\OneDrive\Desktop\gokuleshda>
```

DOCKER IMAGE STATUS:

```
C:\Users\Lenovo\OneDrive\Desktop\gokuleshda>docker images
REPOSITORY
                  TAG
                             IMAGE ID
                                           CREATED
                                                           SIZE
dockerassessment 22MIC0102 f902e745b9ee 37 seconds ago
                                                           471MB
dockerassessment 22MIC0072 25c45f648d1f 10 hours ago
                                                           471MB
hellow
                  latest
                            b9380dd2893d 2 days ago
                                                           7.8MB
hello-world
                  latest
                            d2c94e258dcb
                                           16 months ago
                                                           13.3kB
C:\Users\Lenovo\OneDrive\Desktop\gokuleshda>docker run
```

```
C:\Users\Lenovo\OneDrive\Desktop\gokuleshda>docker run dockerassessment:22MIC0102
22MIC0102-Gokulesh
```

EXPERIMENT DEMONSTRATED IN CLASS

Index.html

Styles.css

```
body {
    font-family: 'Arial', sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f4f4f9;
    color: #333;
    line-height: 1.6;
/* Header Styling */
header {
    background-color: #007bff;
    color: white;
    padding: 20px 0;
    text-align: center;
    box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
header h1 {
    margin: 0;
    font-size: 2.5em;
/* Main Content Area */
main {
    max-width: 900px;
    margin: 40px auto;
    padding: 0 20px;
```

```
/* Hero Section */
.hero {
    background-color: #ffffff;
    padding: 40px;
    border-radius: 8px;
    text-align: center;
   margin-bottom: 40px;
    border-left: 5px solid #007bff;
   box-shadow: 0 4px 8px rgba(0, 0, 0, 0.05);
.hero h2 {
    color: #007bff;
    font-size: 2em;
   margin-top: 0;
/* Button Styling */
.button {
    display: inline-block;
    background-color: #28a745;
    color: white;
    padding: 10px 20px;
    text-decoration: none;
   border-radius: 5px;
   margin-top: 15px;
   transition: background-color 0.3s ease;
.button:hover {
    background-color: #218838;
/* Content Box Section */
.content-box {
    background-color: #fff;
    padding: 30px;
   border-radius: 8px;
   margin-top: 20px;
   box-shadow: 0 4px 8px rgba(0, 0, 0, 0.05);
.content-box h3 {
    border-bottom: 2px solid #ccc;
    padding-bottom: 10px;
   color: #555;
```

```
/* Footer Styling */
footer {
    text-align: center;
    padding: 20px 0;
    background-color: #333;
    color: white;
    margin-top: 40px;
}
```

OUTPUT:

