ADVANCE PYTHON PROGRAMMIG

LAB ASSIGNMENT 20

DOCKER EXPERIMENTATION.

G REENA SRI

22MID0009

Q: WORKING AND EXPERIMENTATION ON DOCKER DESKTOP.

DockerAssessment.java - Notepad
File Edit Format View Help

```java
import java.text.SimpleDateFormat;
import java.util.Date;

public class DockerAssessment {
    public static void main(String[] args) {
        String regNo = "22MID0009";
        String studentName = "G . Reena Sri";
        String projectTitle = "Containerized Java App Simulation";
        String timeStamp = new SimpleDateFormat("dd-MM-yyyy HH:mm:ss").format(new Date());

        System.out.println("----- Project Execution Details -----");
        System.out.println("Student Name : " + studentName);
        System.out.println("Register No  : " + regNo);
        System.out.println("Project Title: " + projectTitle);
        System.out.println("Execution Time: " + timeStamp);
        System.out.println("---------------------------------");
    }
}
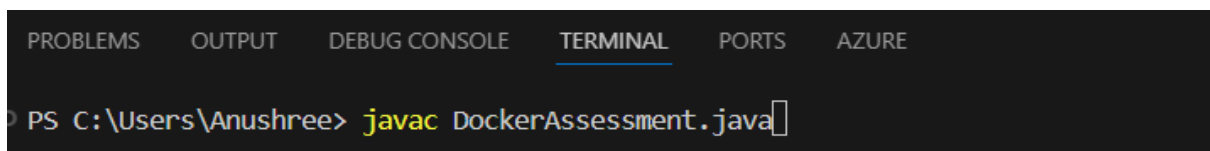```

File Edit Format View Help

```dockerfile
FROM openjdk:17
WORKDIR /app
COPY DockerAssessment.java /app/
RUN javac DockerAssessment.java
CMD ["java", "DockerAssessment"]
```

TERMINAL OUTPUT:

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS   AZURE

PS C:\Users\Anushree> javac DockerAssessment.java

```
[+] Building 4.9s (10/10) FINISHED                                                    docker:desktop-linux
=> [internal] load build definition from DockerFile                                                 0.0s
=> => transferring dockerfile: 171B                                                                 0.0s
=> [internal] load metadata for docker.io/library/openjdk:17                                        2.3s
=> [auth] library/openjdk:pull token for registry-1.docker.io                                       0.0s
=> [internal] load .dockerignore                                                                    0.1s
=> => transferring context: 2B                                                                      0.0s
=> [1/4] FROM docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaeaf9f87662e7b3f38cb7  0.0s
=> [internal] load build context                                                                    0.1s
=> => transferring context: 337B                                                                    0.0s
=> CACHED [2/4] WORKDIR /app                                                                         0.0s
=> [3/4] COPY DockerAssessment.java /app/                                                            0.0s
=> [4/4] RUN javac DockerAssessment.java                                                             2.0s
=> exporting to image                                                                               0.1s
=> => exporting layers                                                                              0.1s
=> => writing image sha256:f902e745b9ee27fb76c52236c91b3fcff9bc6be5ab3c1999c9744f278bf91a73          0.0s
=> => naming to docker.io/library/dockerassessment:22MIC0102                                         0.0s

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
```

HTML CODE:

```
Welcome          Welcome to Settings Sync          docker.html  X

D: > Downloads > <> docker.html > ⬡ html > ⬡ body > ⬡ div.card > ⬡ div.section > ⬡ div.code
   1   <!DOCTYPE html>
   2   <html lang="en">
   3
   4   <head>
   5       <meta charset="UTF-8">
   6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
   7       <title>Docker Assessment - ReenaSri</title>
   8       <style>
   9           * {
  10               box-sizing: border-box;
  11               margin: 0;
  12               padding: 0;
  13           }
  14
  15           body {
  16               font-family: "Poppins", sans-serif;
  17               background: linear-gradient(135deg, #0072ff, #00c6ff);
  18               color: #222;
  19               display: flex;
  20               flex-direction: column;
  21               align-items: center;
  22               min-height: 100vh;
  23           }
  24
  25           header {
  26               text-align: center;
  27               color: white;
  28               padding: 60px 20px 30px;
  29           }
  30
```

```css
    header {
        text-align: center;
        color: white;
        padding: 60px 20px 30px;
    }

    header h1 {
        font-size: 2.5rem;
        letter-spacing: 1px;
    }

    header p {
        margin-top: 10px;
        font-size: 1.1rem;
        opacity: 0.9;
    }

    .card {
        background: white;
        width: 85%;
        max-width: 900px;
        border-radius: 15px;
        box-shadow: 0 8px 20px rgba(0, 0, 0, 0.15);
        margin: 30px auto;
        padding: 40px;
        animation: fadeIn 1s ease-in-out;
    }

    .section {
        margin-bottom: 25px;
    }

    h2 {
```

```css
    h2 {
        color: #0072ff;
        margin-bottom: 15px;
    }

    .info {
        font-size: 1rem;
        line-height: 1.8;
    }

    .code {
        background: #1e1e1e;
        color: #00ff99;
        padding: 15px;
        border-radius: 10px;
        font-family: "Courier New", monospace;
        font-size: 0.95rem;
        overflow-x: auto;
    }

    footer {
        color: white;
        text-align: center;
        padding: 20px;
        margin-top: auto;
        font-size: 0.9rem;
    }

    @keyframes fadeIn {
        from {
            opacity: 0;
            transform: translateY(20px);
        }
```

```html
             }
          to {
               opacity: 1;
               transform: translateY(0);
          }
      }
   </style>
</head>

<body>
   <header>
      <h1>Docker Assessment Simulation</h1>
      <p>Mini Project Showcase | Reena (22MID0009)</p>
   </header>

   <div class="card">
      <div class="section">
         <h2>🔷 Project Overview</h2>
         <p class="info">
            This mini-project demonstrates a Java application that prints system and student details,inside a Docker container. The we
         </p>
      </div>

      <div class="section">
         <h2>🖥 Java Program</h2>
         <div class="code">
            public class DockerAssessment {<br>   public static void main(String[] args) {<br>     Syste
            Sri");<br>     System.out.println("Reg No: 22MID0009");<br>     System.out.println
            <br> }
         </div>
      </div>

      <div class="section">
         <h2>🏃 Simulated Output</h2>
```
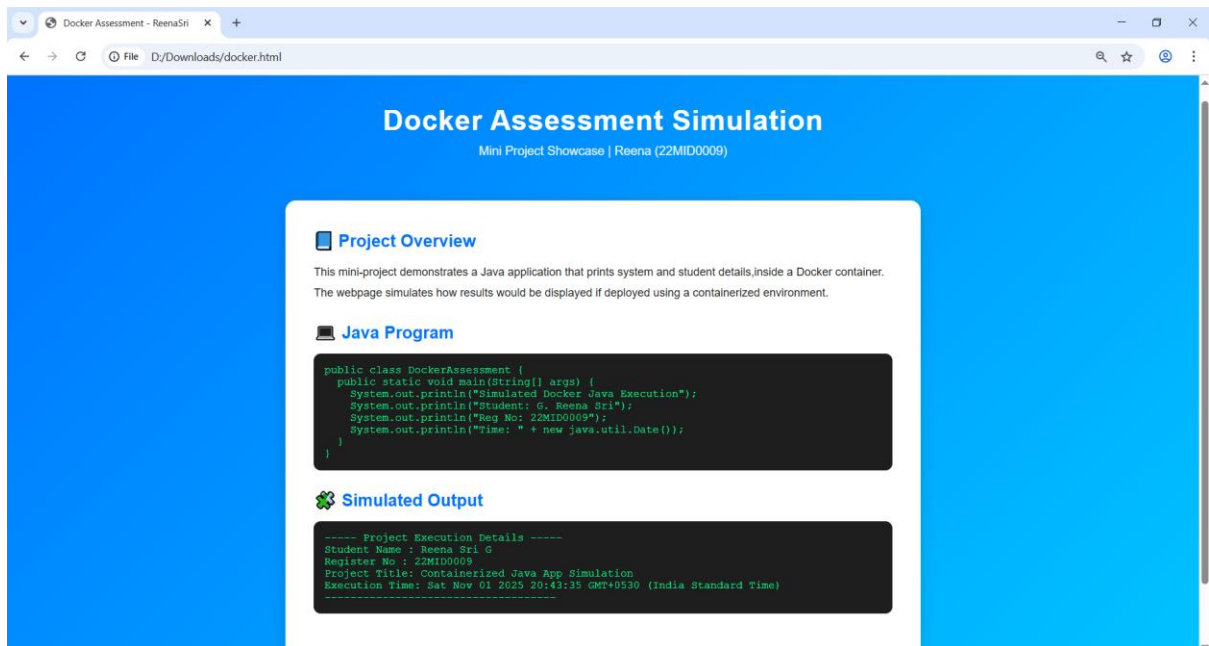
```html
<html lang="en">
<body>
   <div class="card">
      <div class="section">
         <div class="code">
            </div>
      </div>

      <div class="section">
         <h2>🏃 Simulated Output</h2>
         <div class="code" id="outputBox">
            Loading simulated Docker output...
         </div>
      </div>
   </div>

   <footer>
      &copy; 2025 | Docker Assessment by G . Reena sri
   </footer>

   <script>
      const outputBox = document.getElementById("outputBox");
      const now = new Date().toString();
      setTimeout(() => {
         outputBox.innerHTML =
            "----- Project Execution Details -----<br>" +
            "Student Name : Reena Sri G<br>" +
            "Register No  : 22MID0009<br>" +
            "Project Title: Containerized Java App Simulation<br>" +
            "Execution Time: " + now + "<br>" +
            "---------------------------------";
      }, 1000);
   </script>
</body>

</html>
```

OUTPUT:

Docker Assessment Simulation

Mini Project Showcase | Reena (22MID0009)

📘 **Project Overview**

This mini-project demonstrates a Java application that prints system and student details,inside a Docker container.
The webpage simulates how results would be displayed if deployed using a containerized environment.

💻 **Java Program**

```
public class DockerAssessment {
    public static void main(String[] args) {
        System.out.println("Simulated Docker Java Execution");
        System.out.println("Student: G. Reena Sri");
        System.out.println("Reg No: 22MID0009");
        System.out.println("Time: " + new java.util.Date());
    }
}
```

🧩 **Simulated Output**

```
----- Project Execution Details -----
Student Name : Reena Sri G
Register No : 22MID0009
Project Title: Containerized Java App Simulation
Execution Time: Sat Nov 01 2025 20:43:35 GMT+0530 (India Standard Time)
-------------------------------------
```