Absolutely, Sarvesh! Here's your **clean, step-by-step process** to complete **DevOps Lab Program 1**:

✅ *Build and Run a Java Application with Maven, Migrate the Same Application to Gradle.*

✅ **PART 1: Build and Run the Java App with Maven**

📁 **Project Structure**

```
myapp/
├── pom.xml
└── src/
    ├── main/
    │   ├── java/
    │   │   └── com/myproject/myapp/MyApp.java
    │   └── resources/
    │       └── config.properties
    └── test/
        └── java/
            └── com/myproject/myapp/MyAppTest.java
```

📄 **Create MyApp.java**

📄 src/main/java/com/myproject/myapp/MyApp.java:

```java
package com.myproject.myapp;

import java.util.ResourceBundle;


public class MyApp {
    public int userlogin(String inuser, String inpwd) {
        ResourceBundle rb = ResourceBundle.getBundle("config");
        String username = rb.getString("username");
        String password = rb.getString("password");

        if (inuser.equals(username) && inpwd.equals(password))
            return 1;
```

```
        else

            return 0;

    }

}
```

2️⃣ Create MyAppTest.java

📄 src/test/java/com/myproject/myapp/MyAppTest.java:

```java
package com.myproject.myapp;


import org.testng.Assert;

import org.testng.annotations.Test;


public class MyAppTest {

    @Test

    public void testlogin1() {

        MyApp myapp = new MyApp();

        Assert.assertEquals(0, myapp.userlogin("abc", "abc1234"));

    }


    @Test

    public void testlogin2() {

        MyApp myapp = new MyApp();

        Assert.assertEquals(1, myapp.userlogin("abc", "abc@1234"));

    }

}
```

3️⃣ Create config.properties

📄 src/main/resources/config.properties:

```
username=abc

password=abc@1234
```

4️⃣ Create pom.xml

📄 pom.xml:

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
               http://maven.apache.org/xsd/maven-4.0.0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <groupId>com.myproject</groupId>
  <artifactId>myapp</artifactId>
  <version>1.0</version>
  <packaging>jar</packaging>

  <dependencies>
    <dependency>
      <groupId>org.testng</groupId>
      <artifactId>testng</artifactId>
      <version>7.5.1</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
</project>
```

5️⃣ Run with Maven

In project root (myapp/):

mvn test

✅ Expected: BUILD SUCCESSFUL and tests passed

✅ PART 2: Migrate the Maven Project to Gradle

1️⃣ Create build.gradle

📄 build.gradle:

```
plugins {
    id 'java'
}

group = 'com.myproject'
version = '1.0'

repositories {
    mavenCentral()
}

dependencies {
    testImplementation 'org.testng:testng:7.5.1'
}

test {
    useTestNG()
}
```

gradle test

✅ Output:

BUILD SUCCESSFUL

🎉 **Done!**

You have now:

- Built and tested the Java app using Maven ✅
- Migrated it to Gradle and tested it again ✅

Let me know if you'd like a ZIP of the complete project folder for reference or submission!