//Pom.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

https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>NestedRepeated</groupId>

<artifactId>NestedRepeated</artifactId>

<version>0.0.1-SNAPSHOT</version>

<url>http://maven.apache.org</url>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

</properties>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>3.8.1</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/org.junit.jupiter/junit-jupiter-api -->

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-api</artifactId>

<version>5.9.0</version>

<scope>test</scope>

</dependency>

<!--if error add maven complier plugin-->

</dependencies>

</project>

//App.java:

package com.simplilearn.demo;

/\*\*

\* Hello world!

\*

\*/

public class App

{

public static void main( String[] args )

{

System.out.println( "Hello World!" );

}

}

//Authenication.java:

package com.simplilearn.demo;

public class AuthenticationUser {

public String username()

{

String email = "shubh@gmail.com";

return email;

}

public String paswd()

{

String password = "Root";

return password;

}

}

//AppTest.java:

package com.simplilearn.demo;

import junit.framework.Test;

import junit.framework.TestCase;

import junit.framework.TestSuite;

/\*\*

\* Unit test for simple App.

\*/

public class AppTest

extends TestCase

{

/\*\*

\* Create the test case

\*

\* @param testName name of the test case

\*/

public AppTest( String testName )

{

super( testName );

}

/\*\*

\* @return the suite of tests being tested

\*/

public static Test suite()

{

return new TestSuite( AppTest.class );

}

/\*\*

\* Rigourous Test :-)

\*/

public void testApp()

{

assertTrue( true );

}

}

//AuthTest.java:

package com.simplilearn.demo;

import static org.junit.jupiter.api.Assertions.\*;

import static org.junit.jupiter.api.Assertions.assertEquals;

import static org.junit.jupiter.api.Assertions.assertNotNull;

import java.util.regex.Matcher;

import java.util.regex.Pattern;

import org.junit.jupiter.api.AfterEach;

import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.Test;

class AuthTest {

private AuthenticationUser authU;

@BeforeEach

public void setup() {

authU= new AuthenticationUser();

System.out.println("Authentication User main class inititated");

}

@AfterEach

public void tearDown() {

authU=null;

System.out.println("Class Closed");

}

@Test

public void checkUser() {

assertEquals("shubh@gmail.com", authU.username());

}

@Test

public void checkUserNull()

{

assertNotNull(authU.username());

}

@Test

public void checkPass() {

assertEquals("Root", authU.paswd());

}

@Test

public void checkPassNull()

{

assertNotNull(authU.paswd());

}

@Test

public void checkUserRegx()

{

String email = authU.username();

String regex = "^(.+)@(.+)$";

Pattern pattern = Pattern.compile(regex);

Matcher matcher = pattern.matcher(email);

assertEquals(true, matcher.matches());

}

}