## **Source code for UserAuthentication:**

## 1. Authentication:

```
package com.simplilearn.demo;
import java.util.regex.*;
public class Authentication {
        public boolean authenticate(String Email, String password){
                 String email = "Vyshi@1432";
                 String pass = "vyshi";
                 String emailPatern = "(.+)@(.+)$";
                 Pattern p = Pattern.compile(emailPatern);
                 Matcher m = p.matcher(Email);
                 if(m.matches())
                 {
                          if(email.equals(Email) && pass.equals(password))
                                   return true;
                          else
                                   return false;
                 return false;
```

## 2. AuthenticationTest:

```
package com.simplilearn.demo;

import static org.junit.jupiter.api.Assertions.*;
import static org.junit.jupiter.api.DynamicTest.dynamicTest;

import java.util.Arrays;
import java.util.Collection;

import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.DynamicTest;
import org.junit.jupiter.api.TestFactory;

class AuthenticationTest {

    private Authentication a;
    @BeforeEach
    public void iniatilse()
```

```
{
                 a = new Authentication();
        @AfterEach
        public void destroy()
                 a = null;
        @TestFactory
        Collection<DynamicTest> authenticationTestDemo(){
                 return Arrays.asList(
                                   dynamicTest("Test 1", ()->assertEquals(true, a.authenticate("Vyshi@1432",
"vyshi"))),
                                   dynamicTest("Test 2", ()->assertNotEquals(true, a.authenticate("vyshi",
"Vyshi"))),
                                   dynamicTest("Test 3", ()->assertTrue(a.authenticate("Vyshi@1432", "vyshi"))),
                                   dynamicTest("Test 4", ()->assertNotSame(false, a.authenticate("Vyshi@1432",
"vyshi"))),
                                   dynamicTest("Test 5", ()->assertEquals(false, a.authenticate("Vyshi@1432",
"Vyshi")))
                 );
```

## 3.pom.xml:

```
<dependencies>
  <dependency>
   <groupId>junit
   <artifactId>junit</artifactId>
   <version>3.8.1</version>
   <scope>test</scope>
  </dependency>
  <dependency>
                        <groupId>org.junit.jupiter</groupId>
                        <artifactId>junit-jupiter-api</artifactId>
                        <version>5.9.0</version>
                        <scope>test</scope>
                </dependency>
 </dependencies>
 <build>
                <plugins>
                        <plugin>
                                <groupId>org.apache.maven.plugins/groupId>
                                <artifactId>maven-compiler-plugin</artifactId>
                                <version>3.10.1</version>
                                <configuration>
                                         <source>1.8</source>
                                         <target>1.8</target>
                                </configuration>
                        </plugin>
                </plugins>
        </build>
</project>
```