**User.java:**

**package** com.junit.entities;

**public** **class** User {

**private** **int** id;

**private** String name;

**private** String email;

**private** String password;

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

**public** User() {

**super**();

}

**public** User(**int** id, String name, String email, String password) {

**super**();

**this**.id = id;

**this**.name = name;

**this**.email = email;

**this**.password = password;

}

@Override

**public** String toString() {

**return** "User [id=" + id + ", name=" + name + ", email=" + email + ", password=" + password + "]";

}

}

**Authentication.java:**

**package** com.junit.testing;

**import** com.junit.entities.User;

**public** **class** Authentication {

//Setting User Authentication properties

**static** User *user1*=**new** User(1,"John","johney123@mail.com", "Password123");

**public** **static** **int** chekId() {

**return** *user1*.getId();

}

**public** **static** String checkName() {

**return** *user1*.getName();

}

**public** **static** String checkEmail() {

**return** *user1*.getEmail();

}

**public** **static** String checkPassword() {

**return** *user1*.getPassword();

}

}

**Test.java:**

**package** com.junit.testing;

**import** **static** org.junit.Assert.*assertEquals*;

**import** **static** org.junit.Assert.*assertNotNull*;

**import** org.junit.jupiter.api.AfterAll;

**import** org.junit.jupiter.api.AfterEach;

**import** org.junit.jupiter.api.BeforeAll;

**import** org.junit.jupiter.api.BeforeEach;

**import** org.junit.jupiter.api.DisplayName;

**import** org.junit.jupiter.api.Nested;

@DisplayName("Welcome Junit5 testing")

**public** **class** Test {

//Setting expected values

**static** **int** *id*=1;

**static** String *name*="John";

**static** String *email*="johney123@mail.com";

**static** String *password*="Password123";

@BeforeAll

**public** **static** **void** beforAll() {

System.***out***.println("Testing Begins");

System.***out***.println();

}

@BeforeEach

**public** **void** beforeEach() {

System.***out***.println("New testing");

}

@Nested

**class** TestName{

@org.junit.jupiter.api.Test

**public** **void** notNull() {

*assertNotNull*(Authentication.*checkName*());

}

@Nested

**class** ValueMatch{

@org.junit.jupiter.api.Test

**void** nameMatch() {

*assertEquals*(*name*,Authentication.*checkName*());

}

}}

@Nested

**class** TestId{

@org.junit.jupiter.api.Test

**public** **void** notNull() {

*assertNotNull*(Authentication.*chekId*());

}

@Nested

**class** ValueMatch{

@org.junit.jupiter.api.Test

**void** nameMatch() {

*assertEquals*(*id*,Authentication.*chekId*());

}

}}

@Nested

**class** TestEmail{

@org.junit.jupiter.api.Test

**public** **void** notNull() {

*assertNotNull*(Authentication.*checkEmail*());

}

@Nested

**class** ValueMatch{

@org.junit.jupiter.api.Test

**void** nameMatch() {

*assertEquals*(*email*,Authentication.*checkEmail*());

}

}}

@Nested

**class** TestPassword{

@org.junit.jupiter.api.Test

**public** **void** notNull() {

*assertNotNull*(Authentication.*checkPassword*());

}

@Nested

**class** ValueMatch{

@org.junit.jupiter.api.Test

**void** nameMatch() {

*assertEquals*(*password*,Authentication.*checkPassword*());

}

}}

@AfterEach

**public** **void** afterEach() {

System.***out***.println("This testing comlpeted");

}

@AfterAll

**public** **static** **void** afterAll() {

System.***out***.println();

System.***out***.println("All Testing Finished");

}

}

**Test.java:**

**package** com.junit.testing;

**import** **static** org.junit.Assert.*assertEquals*;

**import** **static** org.junit.Assert.*assertNotNull*;

**import** org.junit.jupiter.api.AfterAll;

**import** org.junit.jupiter.api.AfterEach;

**import** org.junit.jupiter.api.BeforeAll;

**import** org.junit.jupiter.api.BeforeEach;

**import** org.junit.jupiter.api.DisplayName;

**import** org.junit.jupiter.api.Nested;

@DisplayName("Welcome Junit5 testing")

**public** **class** Test {

//Setting expected values

**static** **int** *id*=1;

**static** String *name*="John";

**static** String *email*="johney123@mail.com";

**static** String *password*="Password123";

@BeforeAll

**public** **static** **void** beforAll() {

System.***out***.println("Testing Begins");

System.***out***.println();

}

@BeforeEach

**public** **void** beforeEach() {

System.***out***.println("New testing");

}

@Nested

**class** TestName{

@org.junit.jupiter.api.Test

**public** **void** notNull() {

*assertNotNull*(Authentication.*checkName*());

}

@Nested

**class** ValueMatch{

@org.junit.jupiter.api.Test

**void** nameMatch() {

*assertEquals*(*name*,Authentication.*checkName*());

}

}}

@Nested

**class** TestId{

@org.junit.jupiter.api.Test

**public** **void** notNull() {

*assertNotNull*(Authentication.*chekId*());

}

@Nested

**class** ValueMatch{

@org.junit.jupiter.api.Test

**void** idMatch() {

*assertEquals*(*id*,Authentication.*chekId*());

}

}}

@Nested

**class** TestEmail{

@org.junit.jupiter.api.Test

**public** **void** notNull() {

*assertNotNull*(Authentication.*checkEmail*());

}

@Nested

**class** ValueMatch{

@org.junit.jupiter.api.Test

**void** emailMatch() {

*assertEquals*(*email*,Authentication.*checkEmail*());

}

}}

@Nested

**class** TestPassword{

@org.junit.jupiter.api.Test

**public** **void** notNull() {

*assertNotNull*(Authentication.*checkPassword*());

}

@Nested

**class** ValueMatch{

@org.junit.jupiter.api.Test

**void** passwordMatch() {

*assertEquals*(*password*,Authentication.*checkPassword*());

}

}}

@AfterEach

**public** **void** afterEach() {

System.***out***.println("This testing comlpeted");

}

@AfterAll

**public** **static** **void** afterAll() {

System.***out***.println();

System.***out***.println("All Testing Finished");

}

}