## **Exercise 4: Arrange-Act-Assert (AAA) Pattern, Test Fixtures, Setup and Teardown Methods in JUnit**

### 

### **Scenario: Organizing Unit Tests with AAA Pattern and Lifecycle Methods**

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import static org.junit.Assert.\*;

public class AccountServiceTest {

private int balance;

@Before

public void setup() {

balance = 1000; // Arrange: Initial balance setup

System.out.println("Setup complete: Balance initialized");

}

@After

public void teardown() {

balance = 0;

System.out.println("Teardown complete: Balance reset");

}

@Test

public void testDeposit() {

balance += 500;

assertEquals(1500, balance);

}

@Test

public void testWithdrawal() {

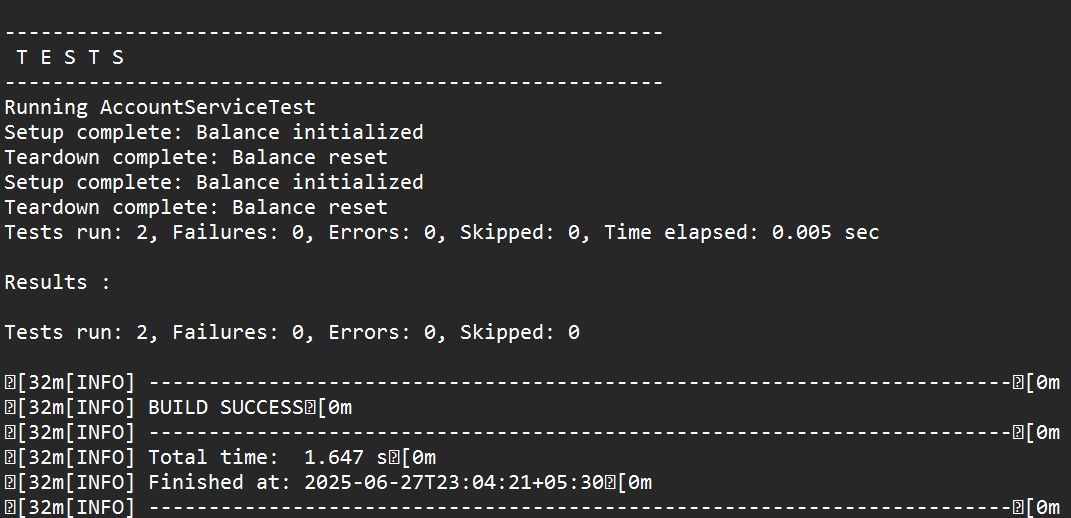
balance -= 300;

assertEquals(700, balance);

}

}

**OUTPUT:**

****