**Question : Setup and Teardown methods in junit**

**Codes:**

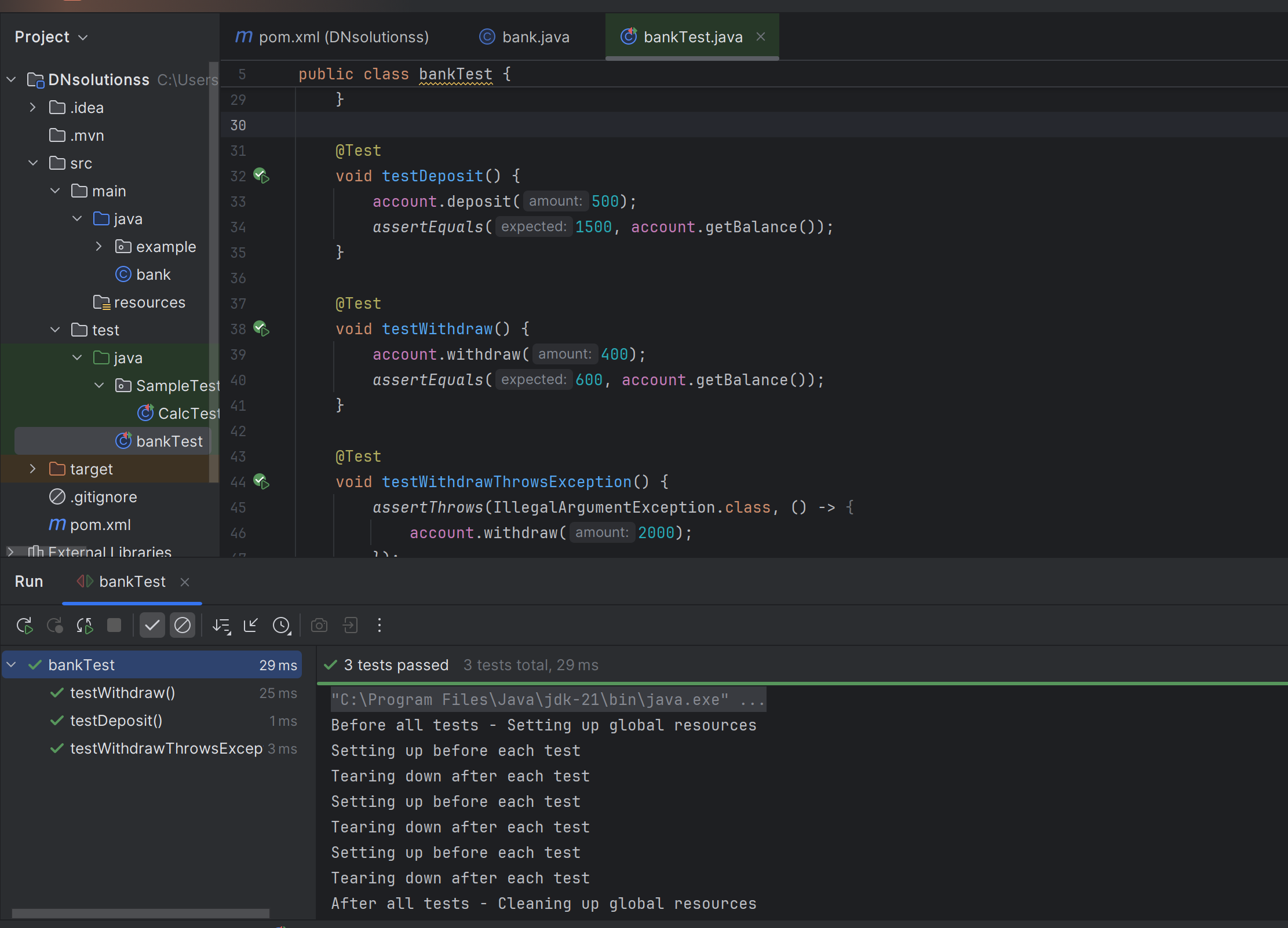
**Main code:**

public class bank{  
 private int balance;  
  
 public bank(int initialBalance) {  
 this.balance = initialBalance;  
 }  
  
 public void deposit(int amount) {  
 balance += amount;  
 }  
  
 public void withdraw(int amount) {  
 if (amount > balance) throw new IllegalArgumentException("Insufficient funds");  
 balance -= amount;  
 }  
  
 public int getBalance() {  
 return balance;  
 }  
}

**Test code:**

import org.junit.jupiter.api.\*;  
  
 import static org.junit.jupiter.api.Assertions.\*;  
  
public class bankTest {  
  
 bank account;  
  
 @BeforeAll  
 static void beforeAllTests() {  
 System.*out*.println("Before all tests - Setting up global resources");  
 }  
  
 @AfterAll  
 static void afterAllTests() {  
 System.*out*.println("After all tests - Cleaning up global resources");  
 }  
  
 @BeforeEach  
 void setup() {  
 System.*out*.println("Setting up before each test");  
 account = new bank(1000);  
 }  
  
 @AfterEach  
 void teardown() {  
 System.*out*.println("Tearing down after each test");  
 account = null;  
 }  
  
 @Test  
 void testDeposit() {  
 account.deposit(500);  
 *assertEquals*(1500, account.getBalance());  
 }  
  
 @Test  
 void testWithdraw() {  
 account.withdraw(400);  
 *assertEquals*(600, account.getBalance());  
 }  
  
 @Test  
 void testWithdrawThrowsException() {  
 *assertThrows*(IllegalArgumentException.class, () -> {  
 account.withdraw(2000);  
 });  
 }  
}

**Output:**

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