**Question:verifying interactions**

**Codes**

1: public class EmailService {

public void sendEmail(String to, String message) {

// Real implementation might send email (but we won't use it in test)

System.out.println("Sending email to " + to + ": " + message);

}

}

2: public class NotificationService {

private EmailService emailService;

public NotificationService(EmailService emailService) {

this.emailService = emailService;

}

public void sendWelcomeEmail(String userEmail) {

emailService.sendEmail(userEmail, "Welcome to our platform!");

}

}

3:

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

public class NotificationServiceTest {

@Test

public void testSendWelcomeEmail\_VerifiesInteraction() {

// Step 1: Create a mock EmailService

EmailService mockEmailService = mock(EmailService.class);

// Step 2: Create NotificationService using mock

NotificationService service = new NotificationService(mockEmailService);

// Step 3: Call method we want to test

String email = "user@example.com";

service.sendWelcomeEmail(email);

// Step 4: Verify interaction

verify(mockEmailService).sendEmail(email, "Welcome to our platform!");

}

}

**Output:**

