**Question :Mocking and Stubbing in Junit**

**Codes:**

1. Repository

public interface UserRepository {

String findUsernameById(int id);

}

2.Service:

public class UserService {

private final UserRepository userRepository;

// Constructor Injection

public UserService(UserRepository userRepository) {

this.userRepository = userRepository;

}

// Business Logic

public String getGreeting(int userId) {

String username = userRepository.findUsernameById(userId);

return "Hello, " + username;

}

}

3.testing;

import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.Test;

import org.mockito.Mockito;

import static org.mockito.Mockito.\*;

import static org.junit.jupiter.api.Assertions.\*;

public class UserServiceTest {

private UserRepository mockRepository;

private UserService userService;

@BeforeEach

void setup()

mockRepository = Mockito.mock(UserRepository.class);

userService = new UserService(mockRepository);

}

@Test

void testGetGreetingWithMockedUsername() {

when(mockRepository.findUsernameById(42)).thenReturn("Bhavana");

String greeting = userService.getGreeting(42);

assertEquals("Hello, Bhavana", greeting);

verify(mockRepository).findUsernameById(42);

}

}

Output:

