```
Exercise 1: Mocking and Stubbing
package com.example;
public interface UserRepository {
 String findUserNameByld(int id);
}
package com.example;
public class UserService {
  private UserRepository userRepository;
  public UserService(UserRepository userRepository) {
   this.userRepository = userRepository;
 }
 public String getWelcomeMessage(int userId) {
   String name = userRepository.findUserNameByld(userld);
   return "Welcome, " + name;
 }
}
package com.example;
import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;
import static org.mockito.Mockito.*;
```

```
public class UserServiceTest {
 @Test
 public void testWelcomeMessage() {
   UserRepository mockRepo = mock(UserRepository.class);
   when(mockRepo.findUserNameByld(101)).thenReturn("Keerthika");
   UserService service = new UserService(mockRepo);
   String result = service.getWelcomeMessage(101);
   assertEquals("Welcome, Keerthika", result);
   verify(mockRepo).findUserNameById(101);
 }
}
OUTPUT:
```

