**CODE:**

package com.example.demo.model;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

@Entity

public class User {

@Id

private Long id;

private String name;

// Getters and Setters

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

}

package com.example.demo.repository;

import com.example.demo.model.User;

import org.springframework.data.jpa.repository.JpaRepository;

public interface UserRepository extends JpaRepository<User, Long> {

}

package com.example.demo.service;

import com.example.demo.model.User;

import com.example.demo.repository.UserRepository;

import org.junit.jupiter.api.Test;

import org.mockito.InjectMocks;

import org.mockito.Mock;

import org.mockito.MockitoAnnotations;

import java.util.Optional;

import static org.junit.jupiter.api.Assertions.assertEquals;

import static org.mockito.Mockito.when;

public class UserServiceTest {

@Mock

private UserRepository userRepository;

@InjectMocks

private UserService userService;

public UserServiceTest() {

MockitoAnnotations.openMocks(this); // Initialize mocks

}

@Test

public void testGetUserById() {

// Arrange

User user = new User();

user.setId(1L);

user.setName("Sabarna");

when(userRepository.findById(1L)).thenReturn(Optional.of(user));

// Act

User result = userService.getUserById(1L);

// Assert

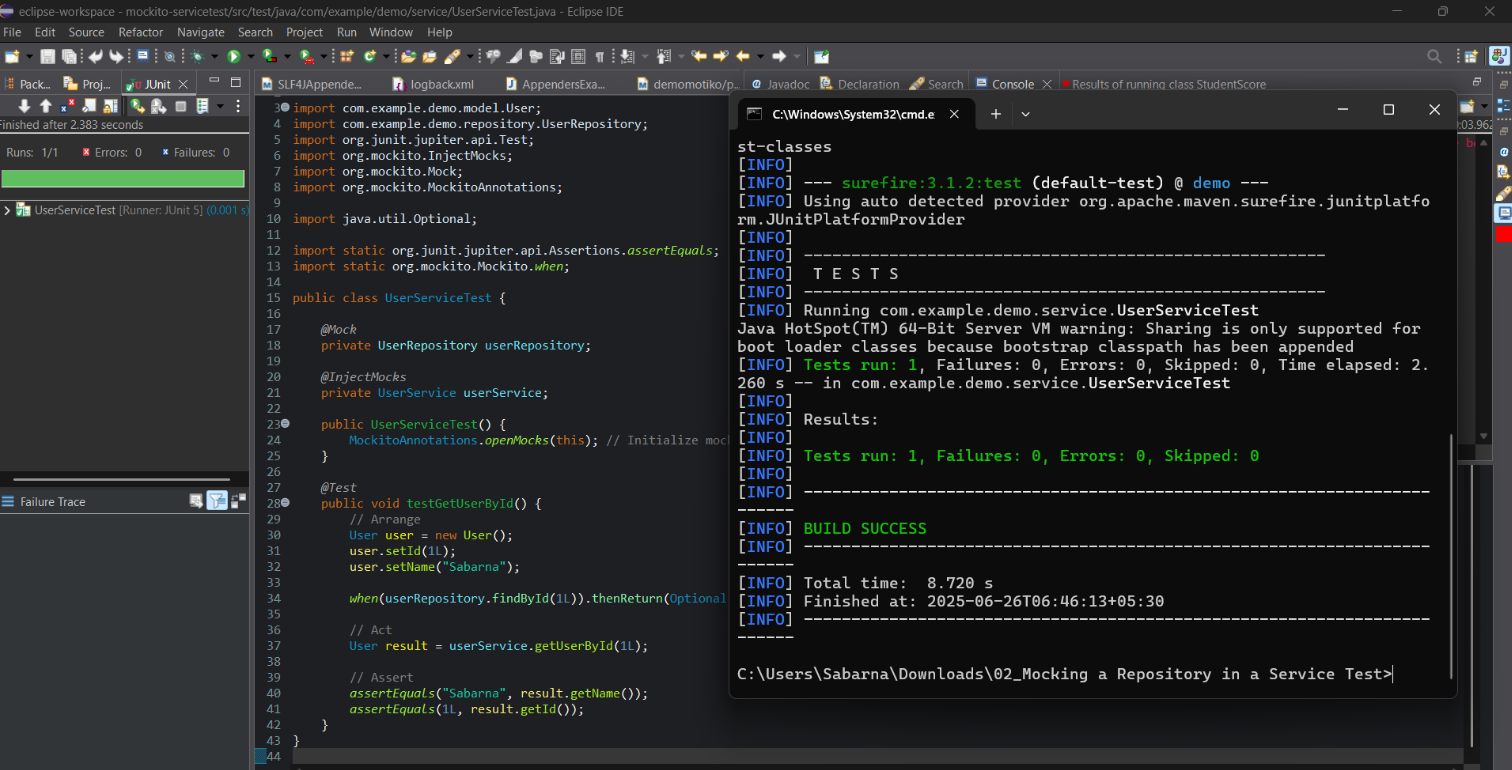
assertEquals("Sabarna", result.getName());

assertEquals(1L, result.getId());

}

}

**OUTPUT:**

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