

Testing

Black Box Testing

Test Name: Register Test and Log in Test					
Test no.	Testing Scenario	Testing Data	Expecting Result	Result	Remarking
1	All data added by user are valid	All inputs are valid	register successful	User data register successful	Pass
2	User leave the field empty	Data is missing due to empty field	Fill the data completely	Registration fail	Fail
3	User fill the valid username and password	Data are valid and match	Username and password match	Log in successful	Pass
4	User enter the username but not password	Username match but password didn't.	Fill the data completely	Log in fail	Fail
5	User enter invalid data	username and password didn't match	Enter the valid data	Log in fail	Fail

Figure 1. Black box Testing

Unit Testing Code And Output

Login Test Pass

```
class login_Test {  
  
    @Test  
    // login pass test  
    void test() {  
        String username = "karmagrg";  
        String pass = "karma123";  
  
        login_test_class ltc = new login_test_class();  
        boolean result = ltc.userLogin(username,pass);  
  
        assertEquals(true,result);  
  
    }  
}
```

Figure 2: Login Test code

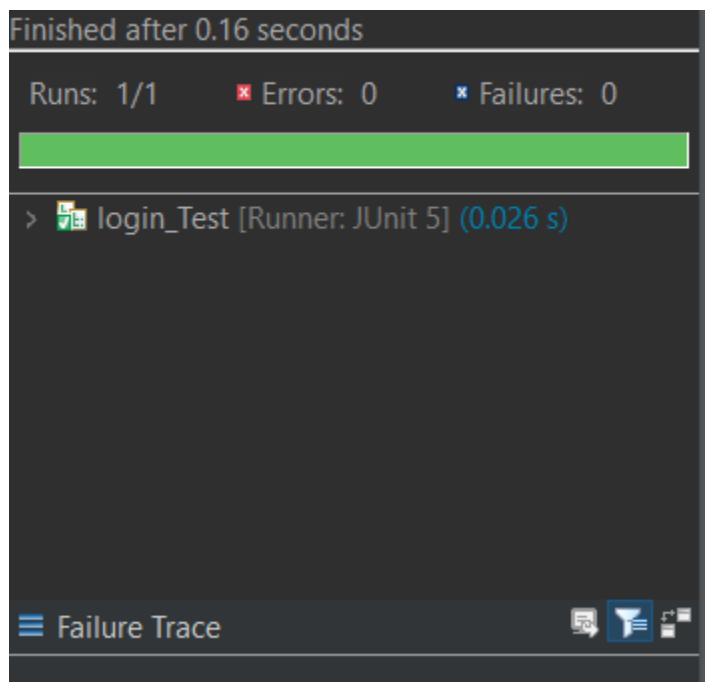


Figure 3: Login Test Output

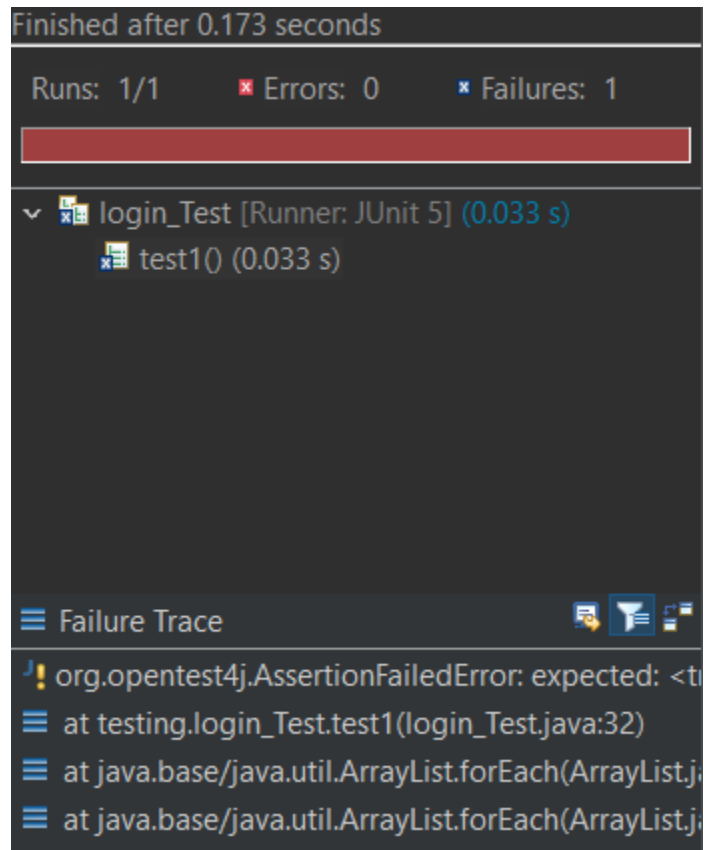
Login Test Fail

```
@Test
// login fail test
void test1() {
    String username = "karmagrg";
    String pass = "karma";

    login_test_class ltc = new login_test_class();
    boolean result = ltc.userLogin(username, pass);

    assertEquals(true, result);
}
```

Figure 4: Login Test Fail Code



Finished after 0.173 seconds

Runs: 1/1 ❌ Errors: 0 ❌ Failures: 1

login_Test [Runner: JUnit 5] (0.033 s)

- test1() (0.033 s)

Failure Trace

- org.opentest4j.AssertionFailedError: expected: <true> but was: <false>
- at testing.login_Test.test1(login_Test.java:32)
- at java.base/java.util.ArrayList.forEach(ArrayList.java:1541)
- at java.base/java.util.ArrayList.forEach(ArrayList.java:1541)

Figure 5: Login Test Fail Output

Register Class Test Pass

```
@Test
// testing class not null
public void testConstructor() {
    register_test_class rtc = new register_test_class();
    assertNotNull(rtc);
}
```

Figure 6: Register Class Test Class

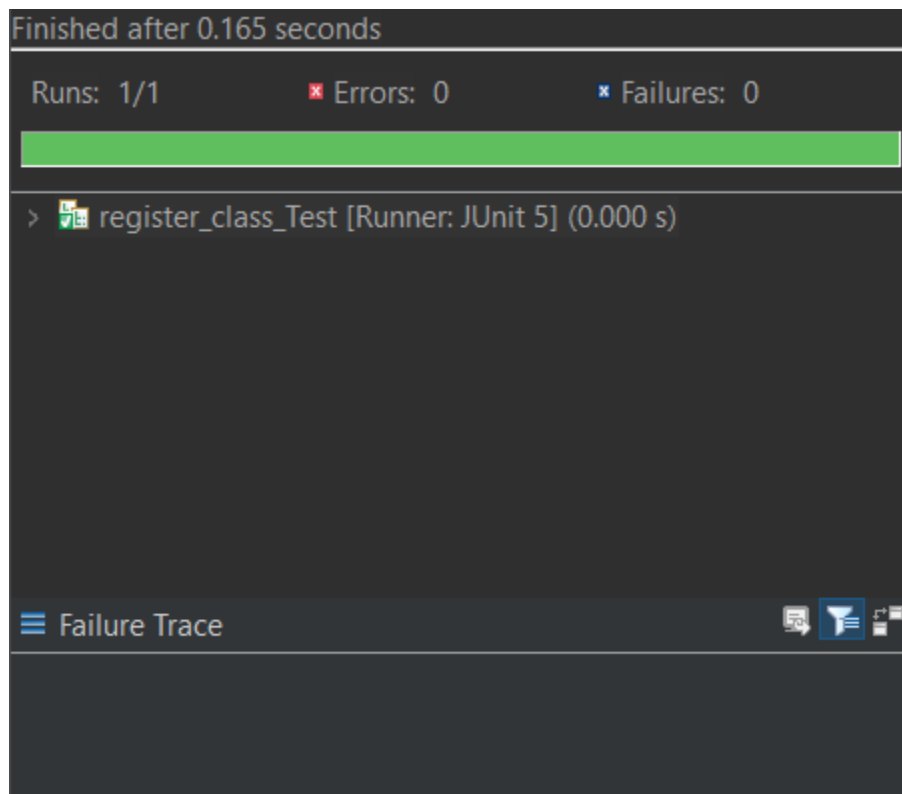


Figure 7: Register Class Test Output

Register Inserting Test Pass

```
@Test
// Register inserting test pass
public void testGetters() {
    register_test_class rt = new register_test_class("karma","karmagrg","karma123",987, "ktm");
    String expected = "karmagrg";
    String actual = rt.getuserName();

    assertEquals(expected,actual);
}
```

Figure 8: Register Inserting Code

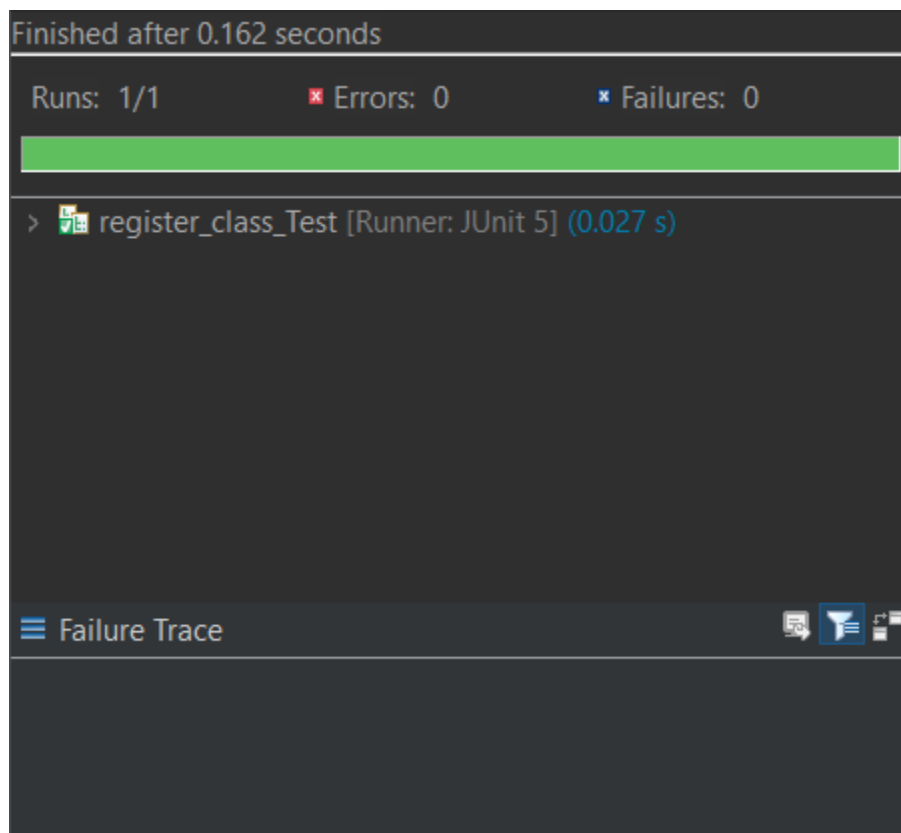


Figure 9: Register Class Test Output

Register Insert Test Fail

```
@Test
// Register inserting test fail
public void testGetters1() {
    register_test_class rt = new register_test_class("karma","karmarg","karma123",987, "ktm");
    String expected = "nepal";
    String actual = rt.getaddress();

    assertEquals(expected,actual);
}
```

Figure 10: Register Inserting Test Code

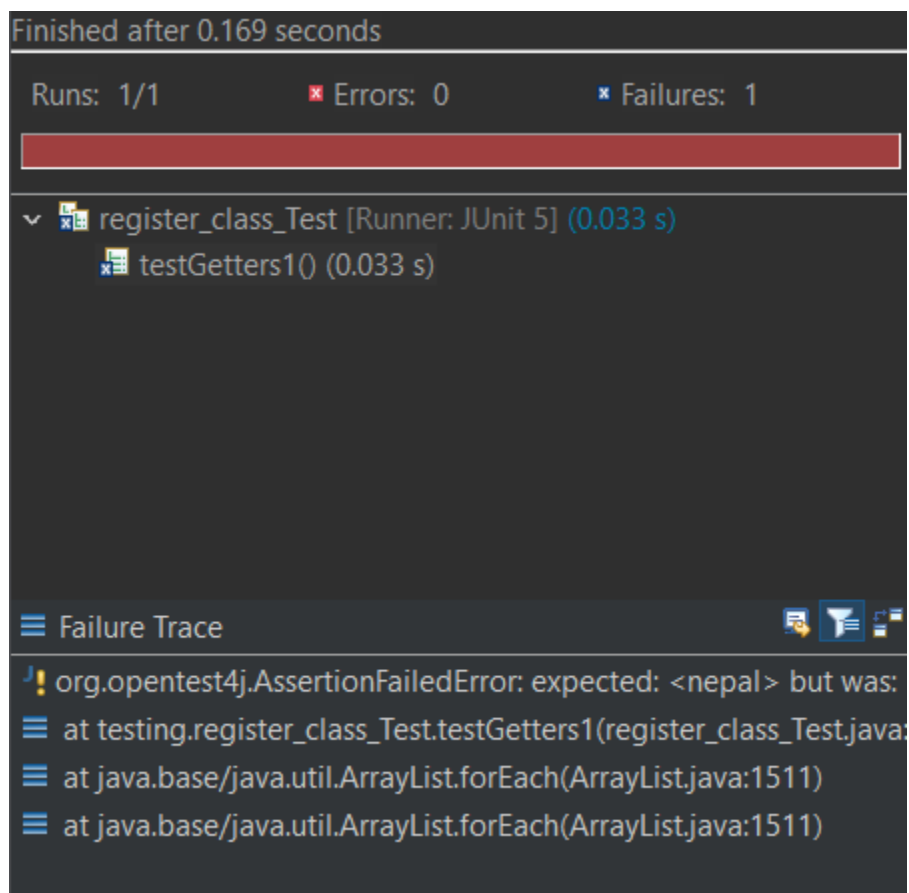


Figure 11: Register Inserting Test Output