

Business Test 01:

```
@Test
public void createBusiness_throwsException_ifBusinessHasId() {
    Business business = new Business();
    business.setId(new Long( value: 100));

    assertThrows(BusinessException.class,
        ()->businessService.createBusiness(business),
        message: "BusinessException has been thrown as business parameter has an id");
}
```

Output:

A screenshot of a test runner interface. At the top, it says "Tests passed: 1 of 1 test - 46ms". Below this, a tree view shows "Test Results" expanded, then "BusinessServiceTest", and finally "createBusiness_thr 46ms" which has a green checkmark next to it.

Comments:

The first test asserted that given a business with an id, if it were to be used in the createBusiness() method, then the method would throw an exception. The only problem with this test was that the message did not print when the test passed.

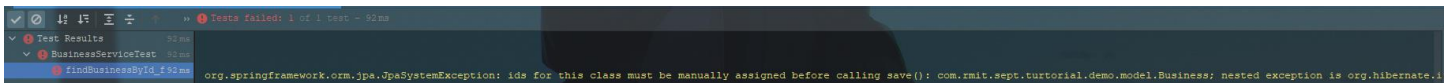
Business Test 02:

```
@Test
public void findBusinessById_foundBusinessIsEqualToOriginal_ifBothHaveSameName () {
    Business business = new Business();
    business.setName("test");
    businessService.createBusiness(business);

    Business temp = businessService.findBusinessById(business.getId());

    assertThat(temp.getName()).isEqualTo(business.getName());
}
```

Output:

A screenshot of a test runner interface. At the top, it says "Tests failed: 1 of 1 test - 92ms". Below this, a tree view shows "Test Results" expanded, then "BusinessServiceTest", and finally "findBusinessById 92ms" which has a red X next to it. The bottom of the screenshot shows a stack trace: "org.springframework.orm.jpa.JpaSystemException: ids for this class must be manually assigned before calling save(): com.rmit.sept.tutorial1.demo.model.Business; nested exception is org.hibernate.i".

Comments:

The second test asserts that given a business with name "test", when it is created and then later found, the found business would have the same name as the original business. The test failed due to code errors; the method was meant to call the setId() method from the Business class, which was apparently missing from the createBusiness() method.