Android Application Automation Using MonkeyTalk

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Content

- Why Automation ?
- Why MonkeyTalk ?
- Requirements
- Steps To Automate

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Why Automation ?

- Save Time.
- Re-usability
- Repeatability
- Increased Coverage.
- Increase the effectiveness, efficiency.
- Accelerated testing cycle.
- Promote software quality.
- High productivity environment.

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Why MonkeyTalk ?

- An open source automation tool.
- Supports both Android and iPhone.
- Easy to learn and use.
- Powerful Functional Testing tool.
- Scripts are simple and understandable.
- Same script can be used for both Android and iPhone.
- Supports looping concept.
- Supports Emulator, Tethered or Networked Device.

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Requirements

- Eclipse
- Android SDK
- MonkeyTalk IDE
- MonkeyTalk Agent
- MonkeyTalk Scripts
- Source code of the application.

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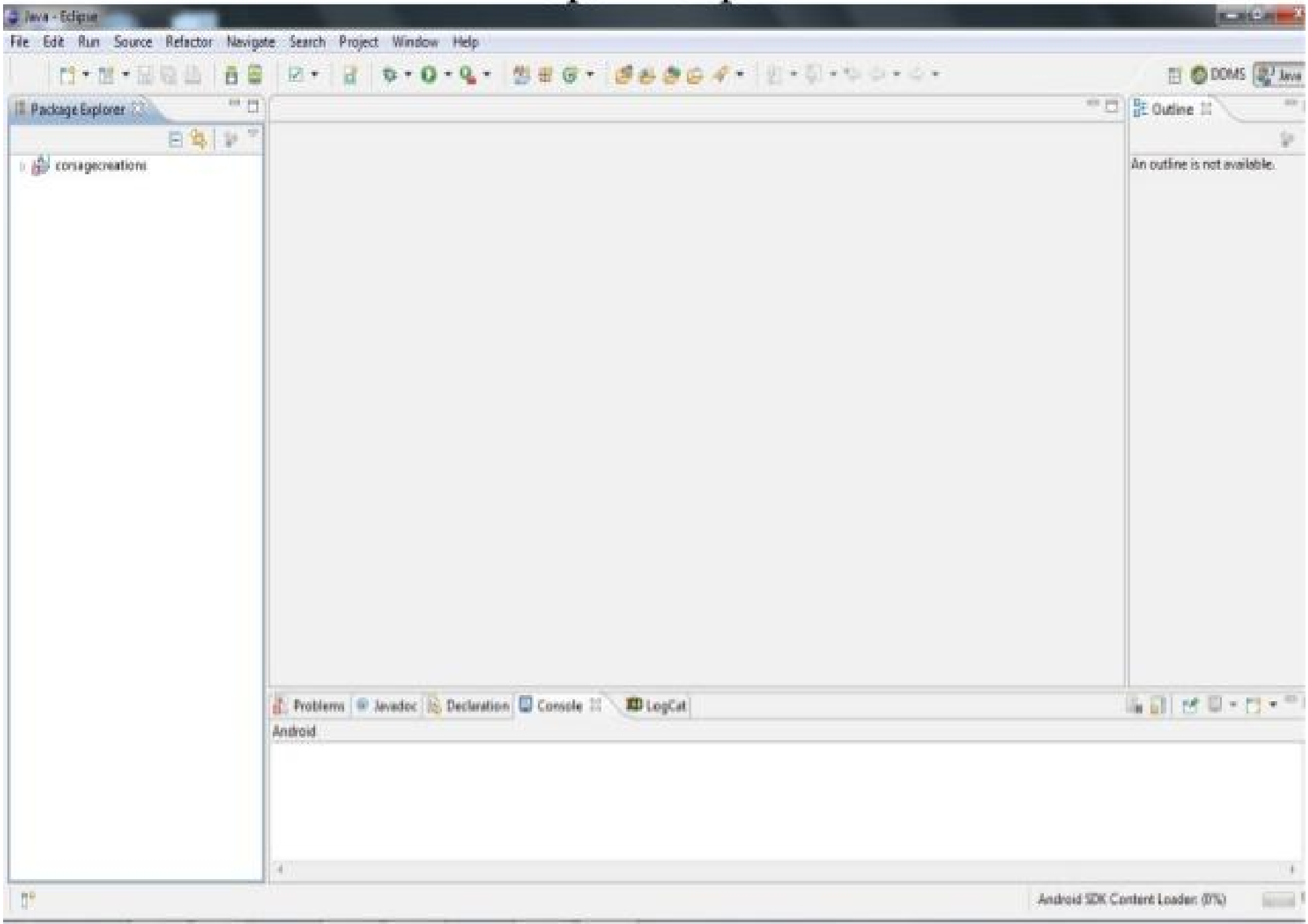
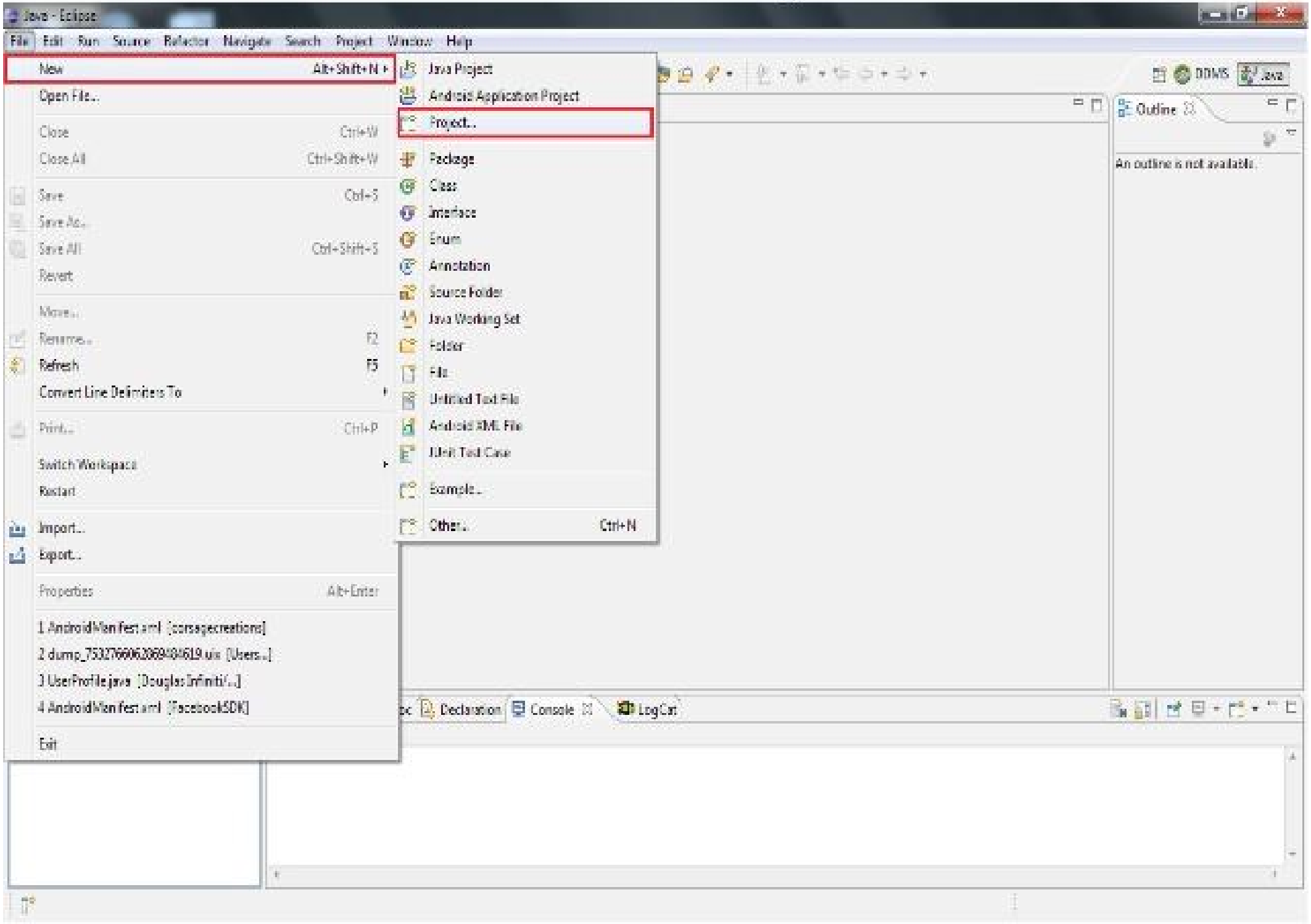
Eclipse

- Open Eclipse
- Create new project
- Select "existing code".
- Import project
- Add MonkeyTalk Agent.
- Add agent to Aspect path.
- Select Build path and Android version in properties.
- Set Run configurations.
- Run as Android application.

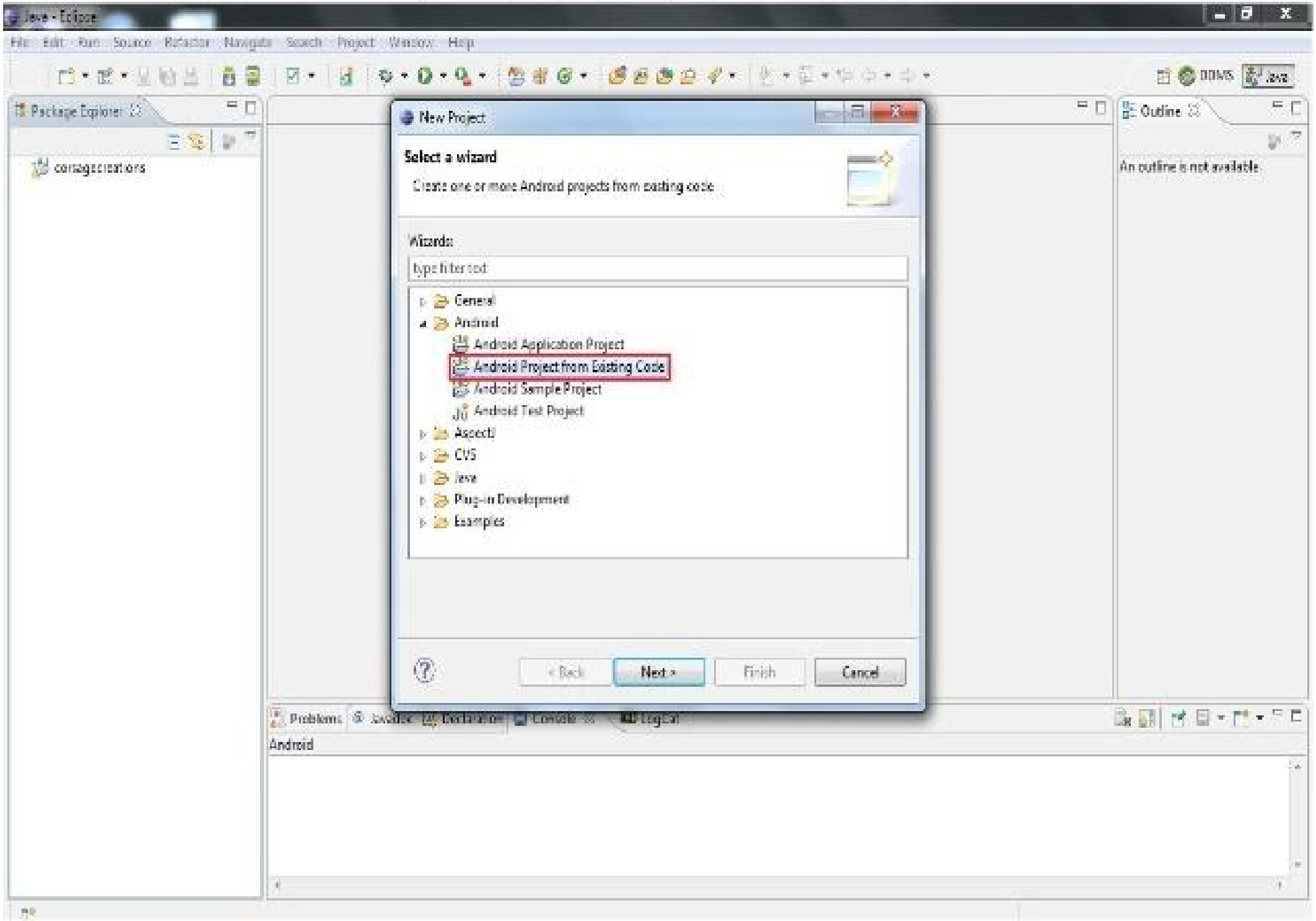
Open Eclipse



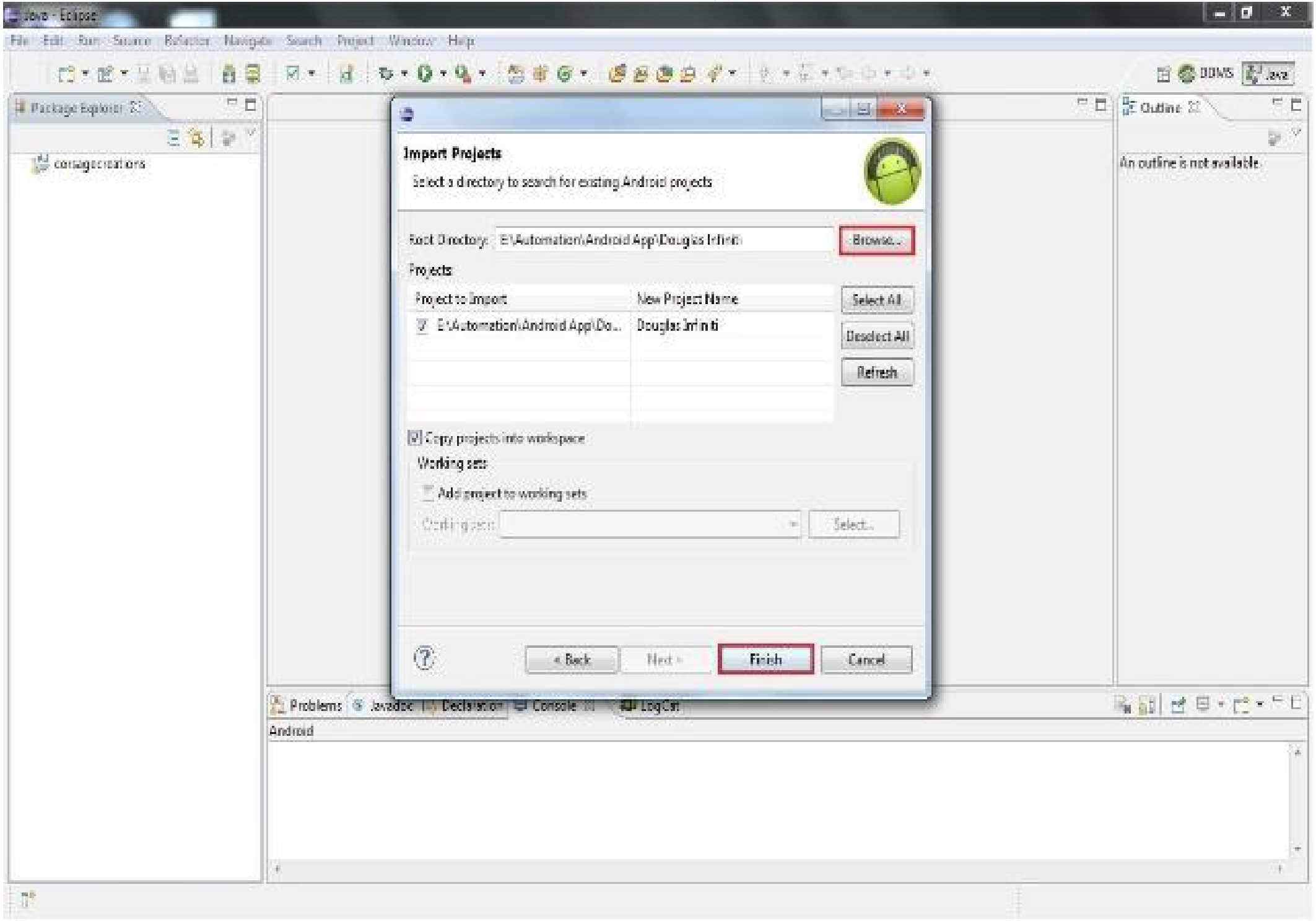
Create New Project



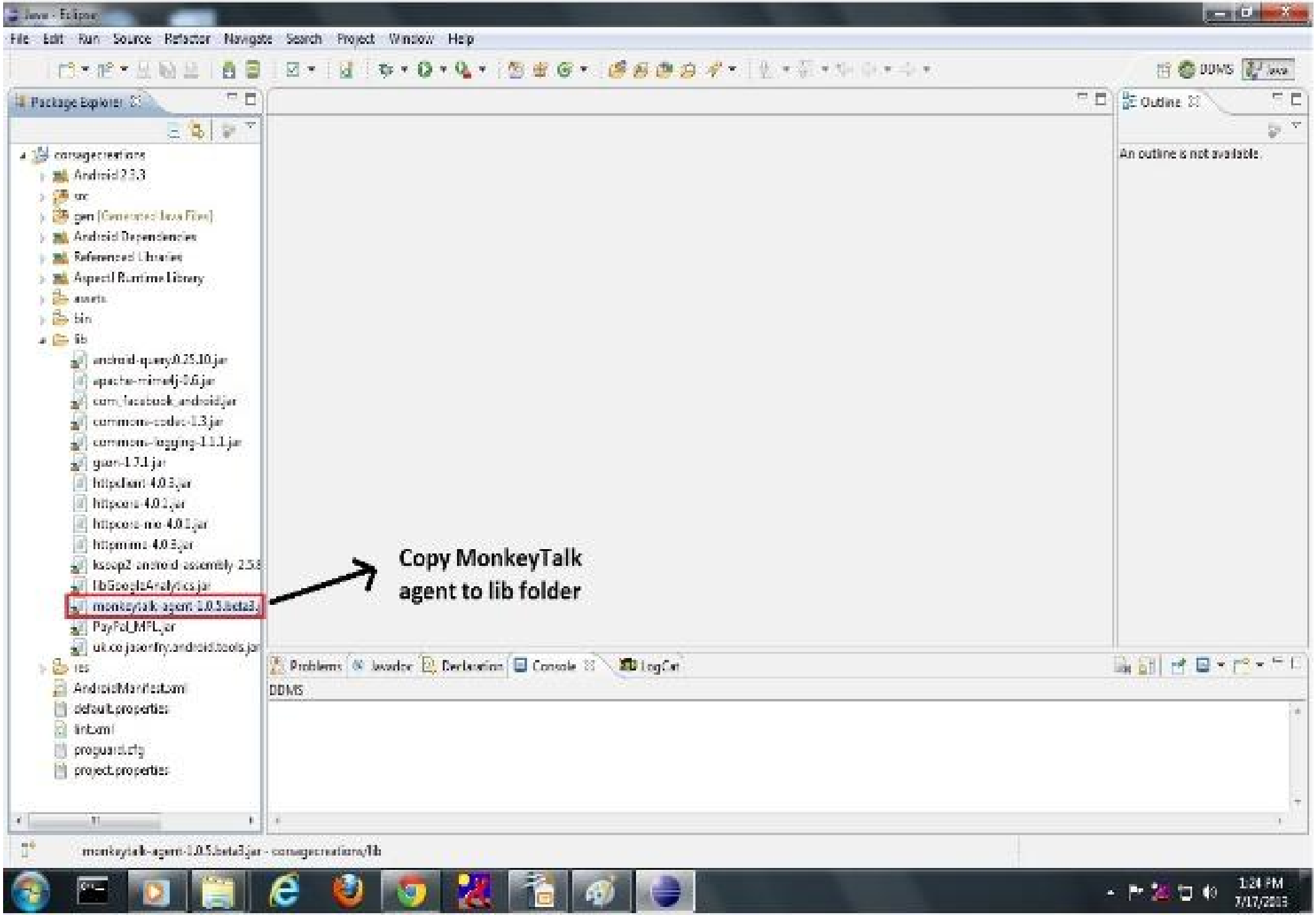
Select Existing Code Option



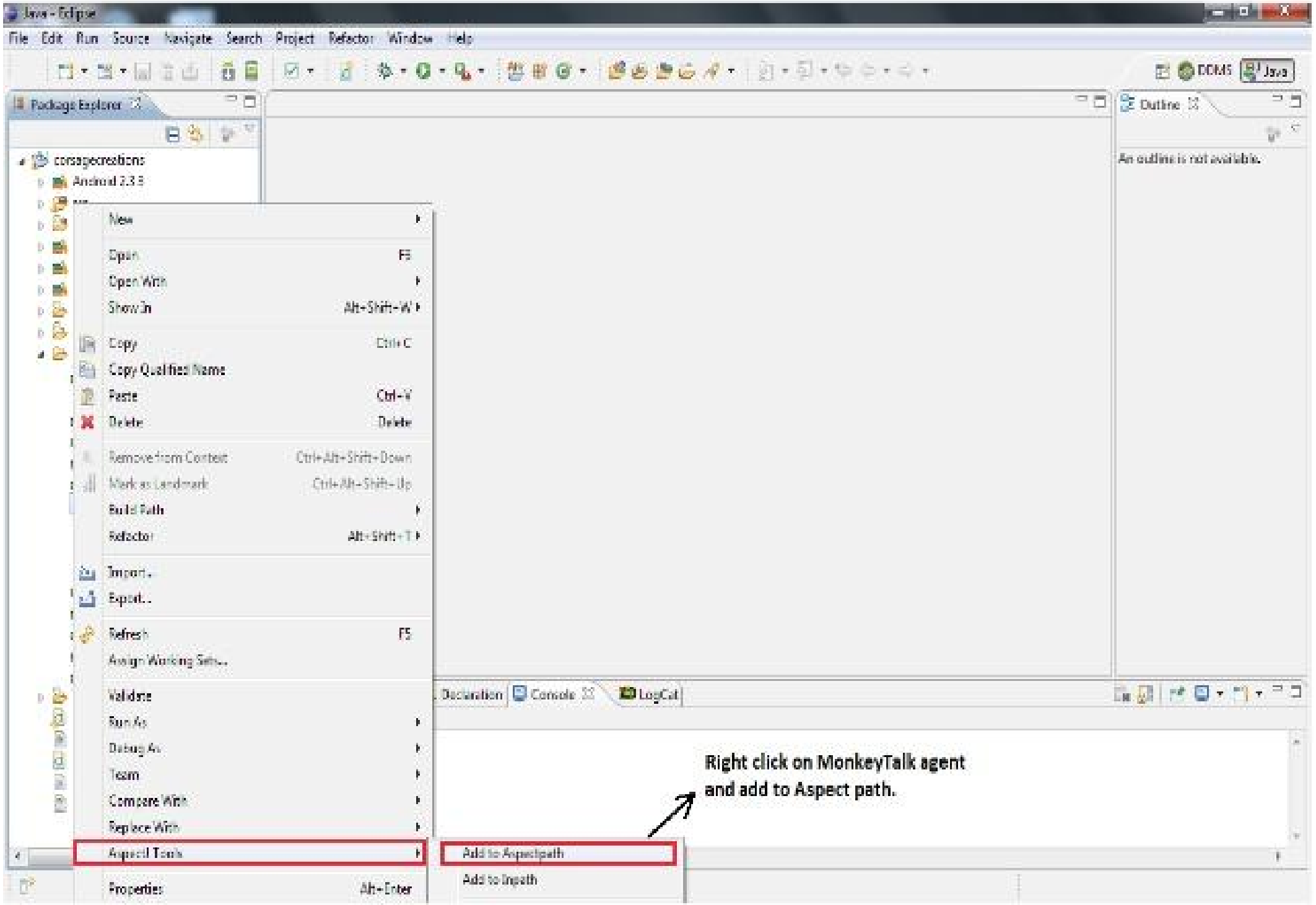
Import Project



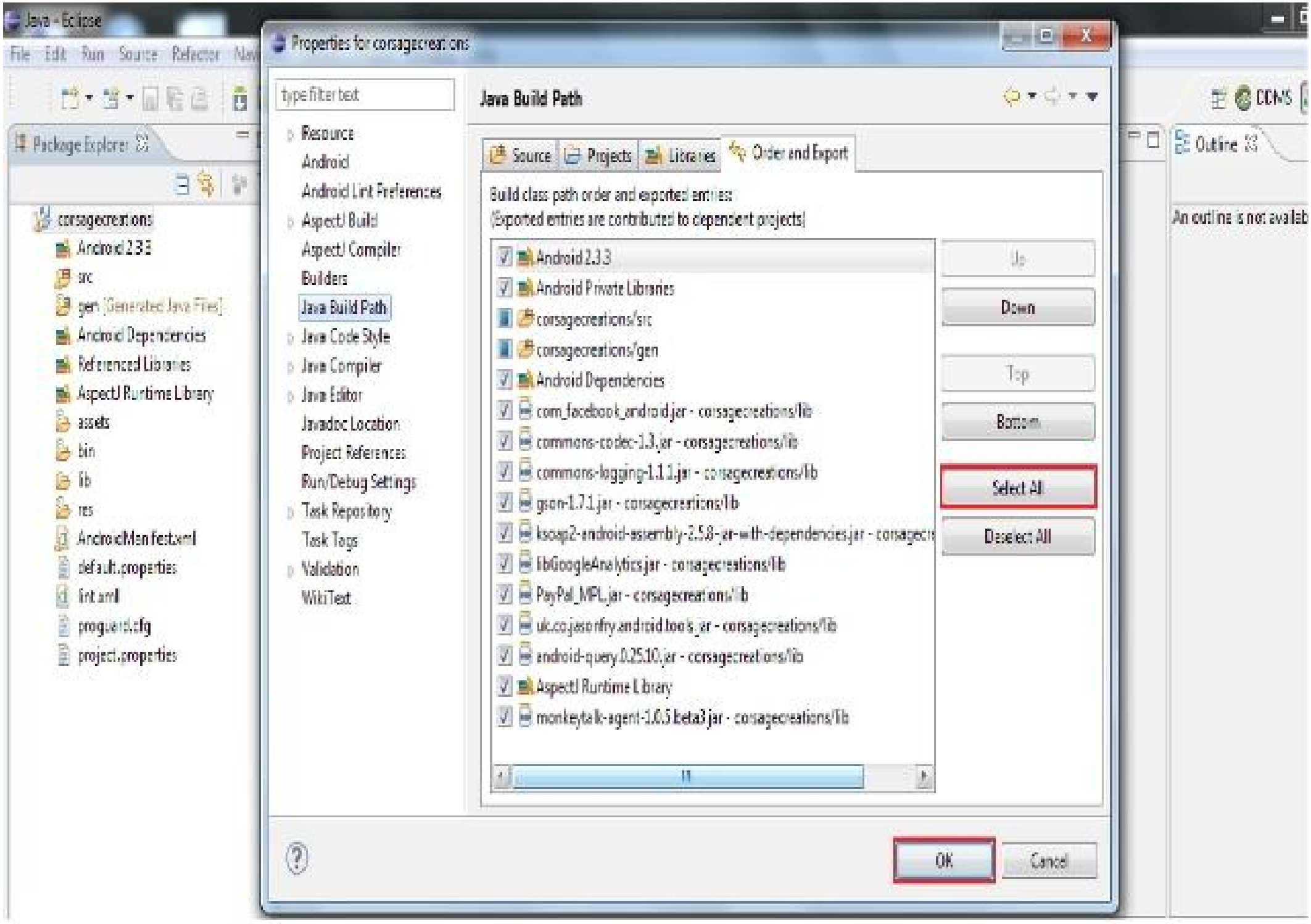
Add MonkeyTalk agent



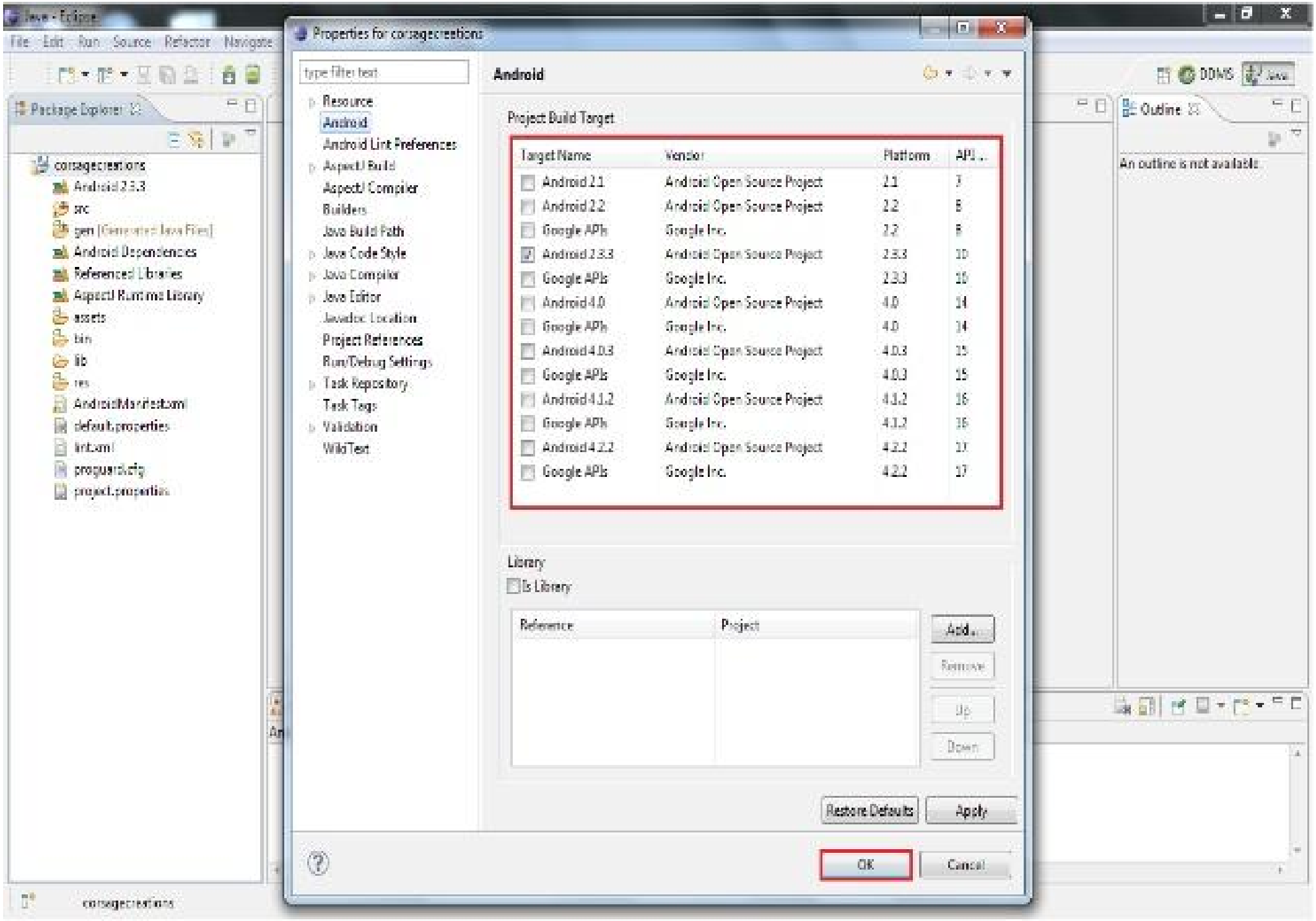
Add MonkeyTalk Agent to Aspect path



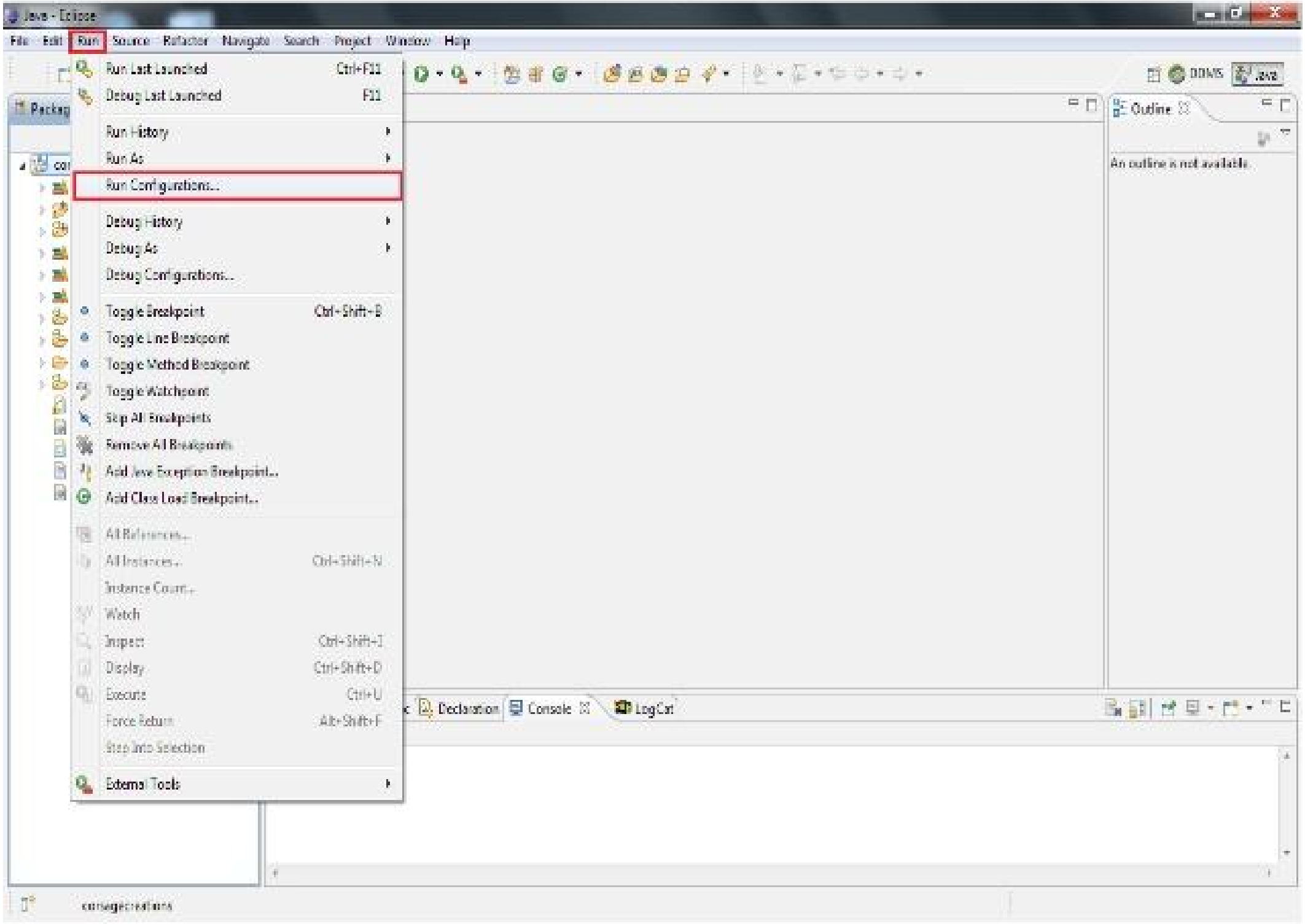
Select Build Path From Properties



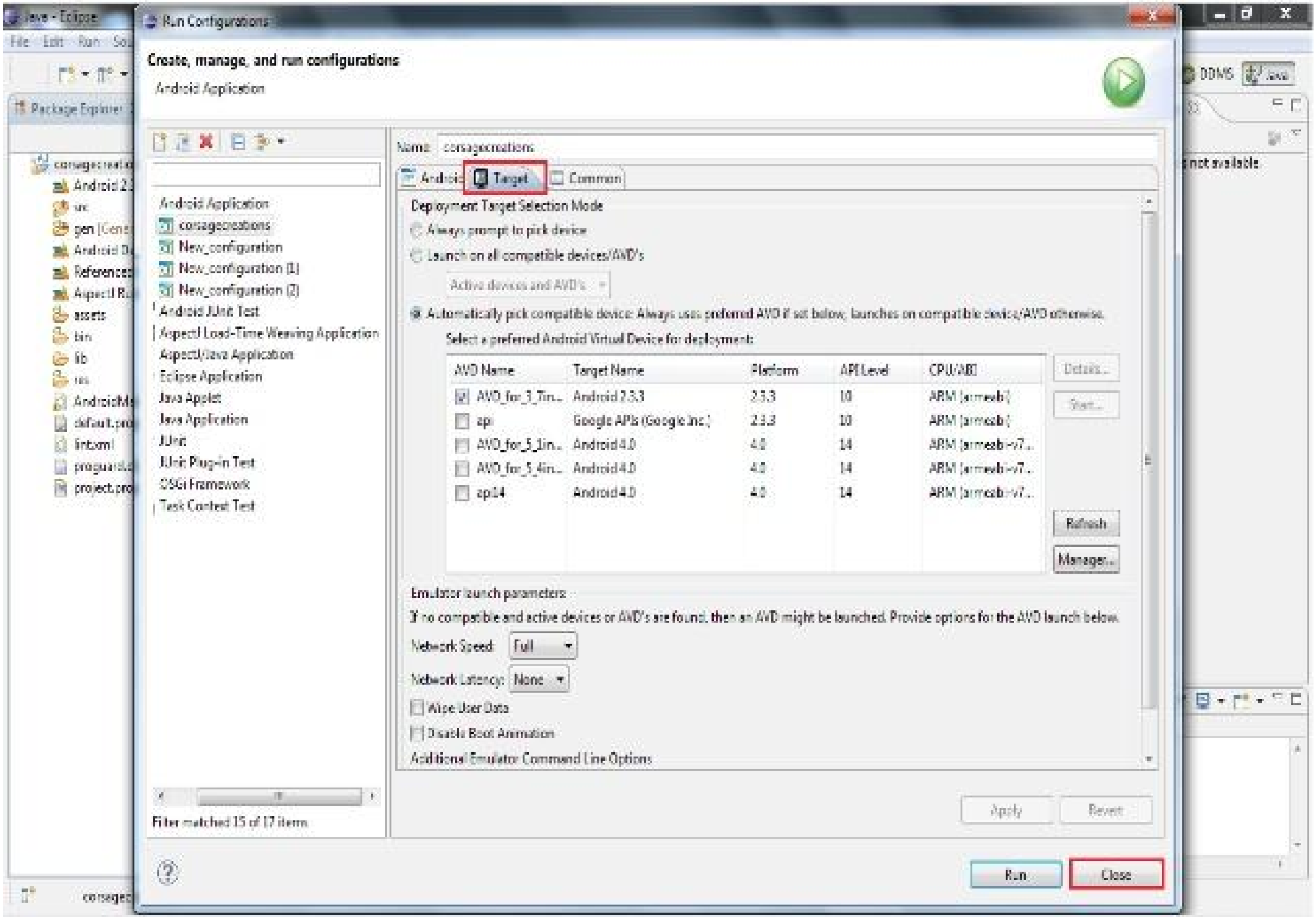
Select required Android version in properties



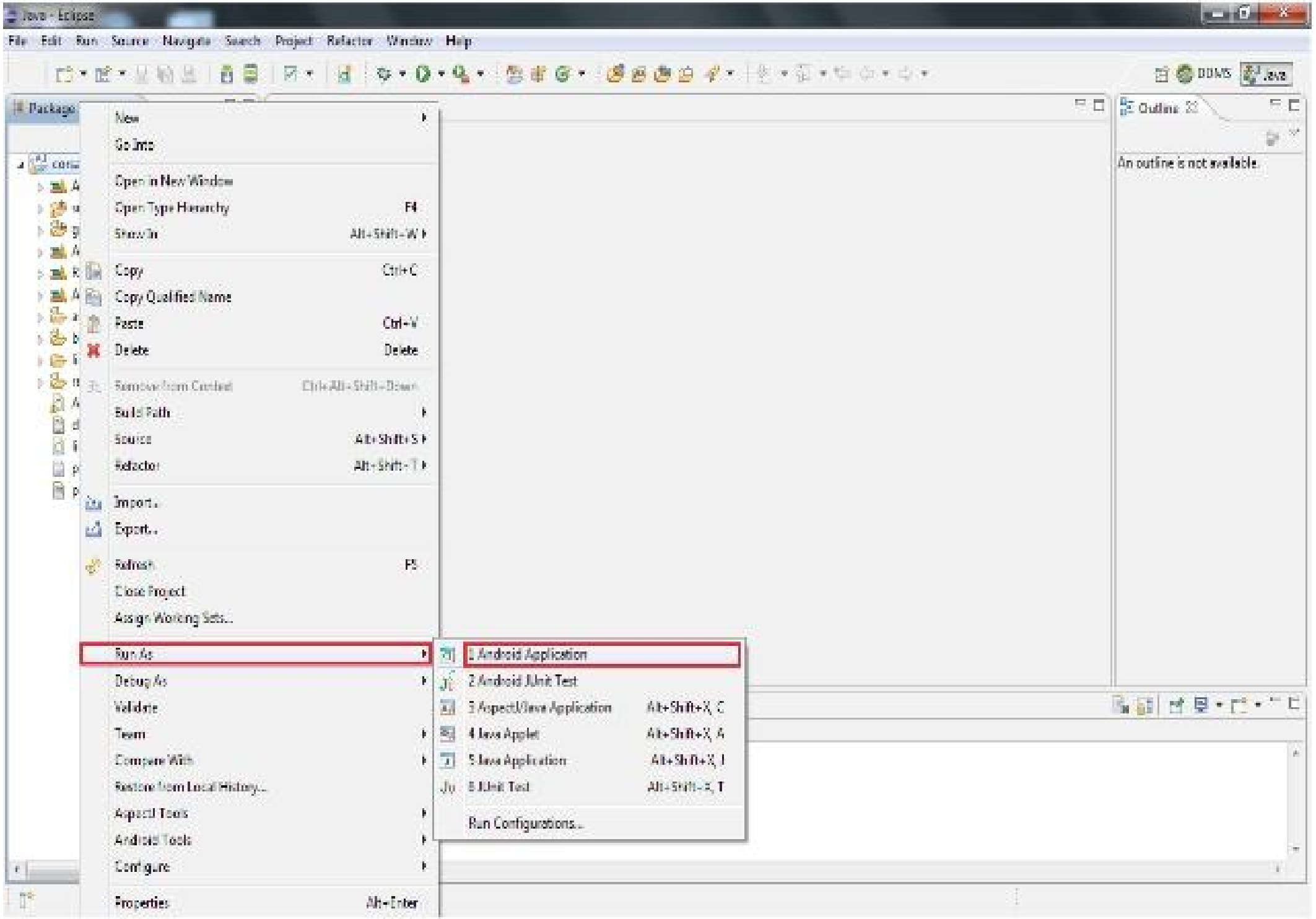
Set Run configurations



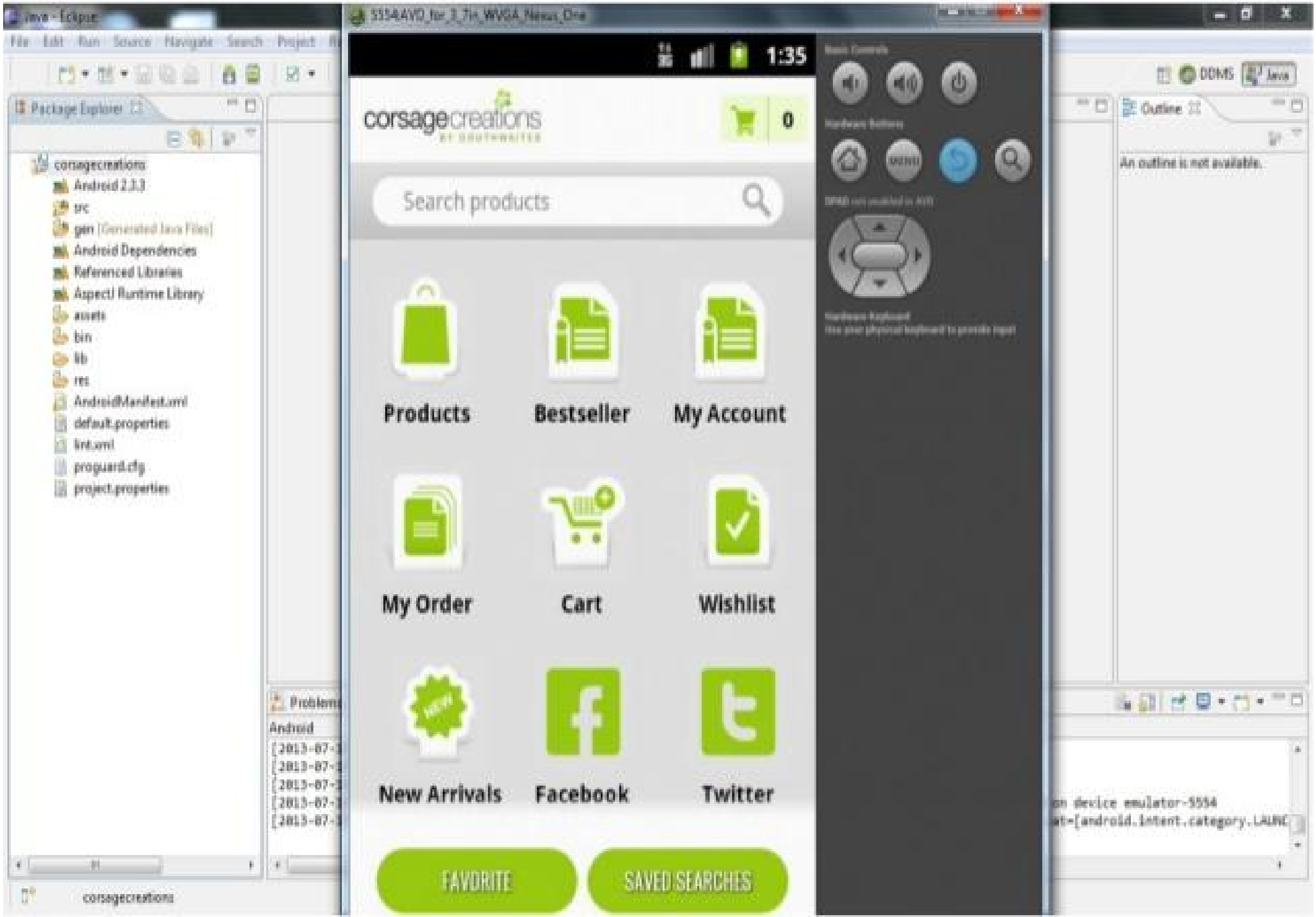
Select Target Android Version



Run as Android application



Emulator gets started



MonkeyTalk Automation

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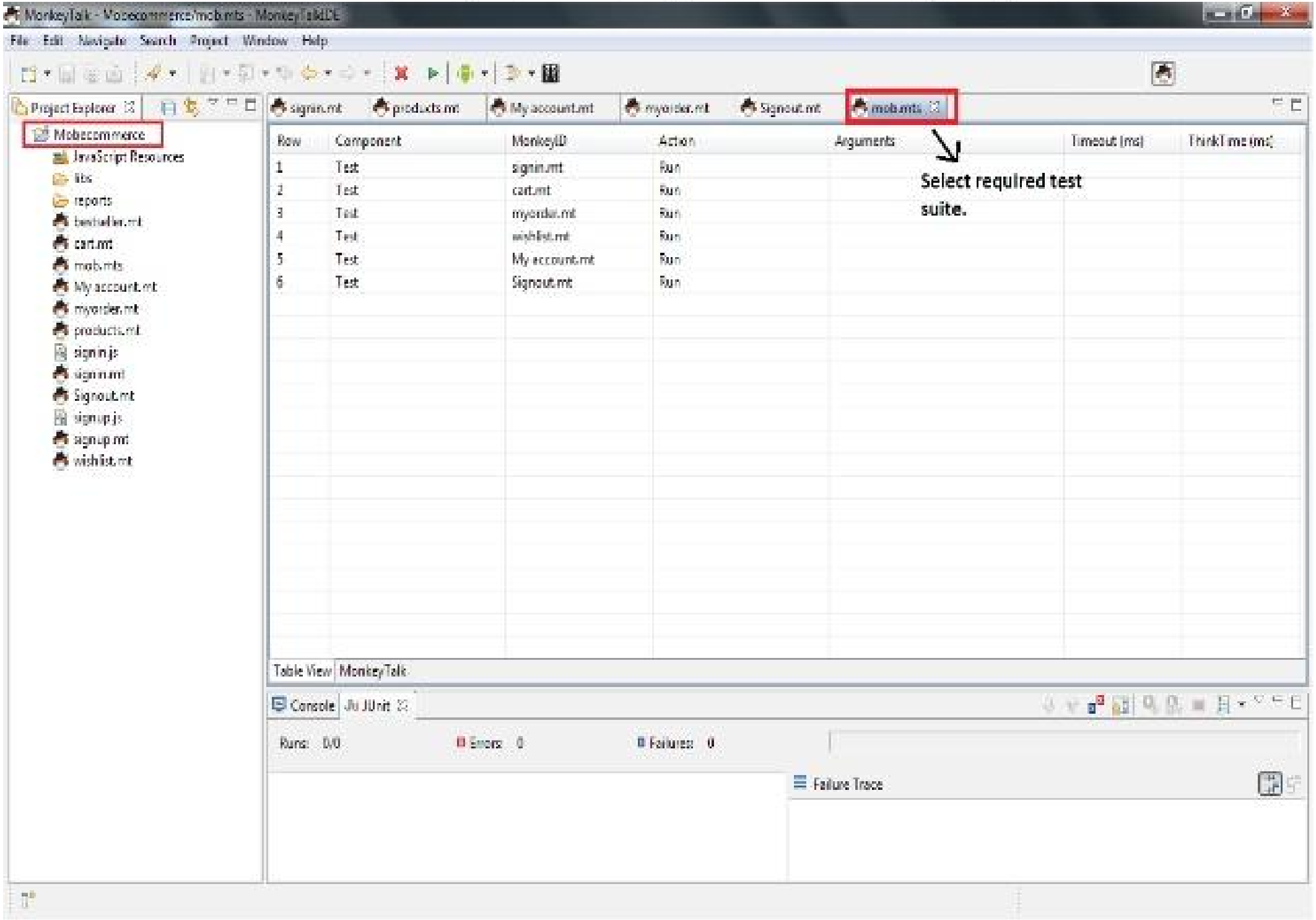
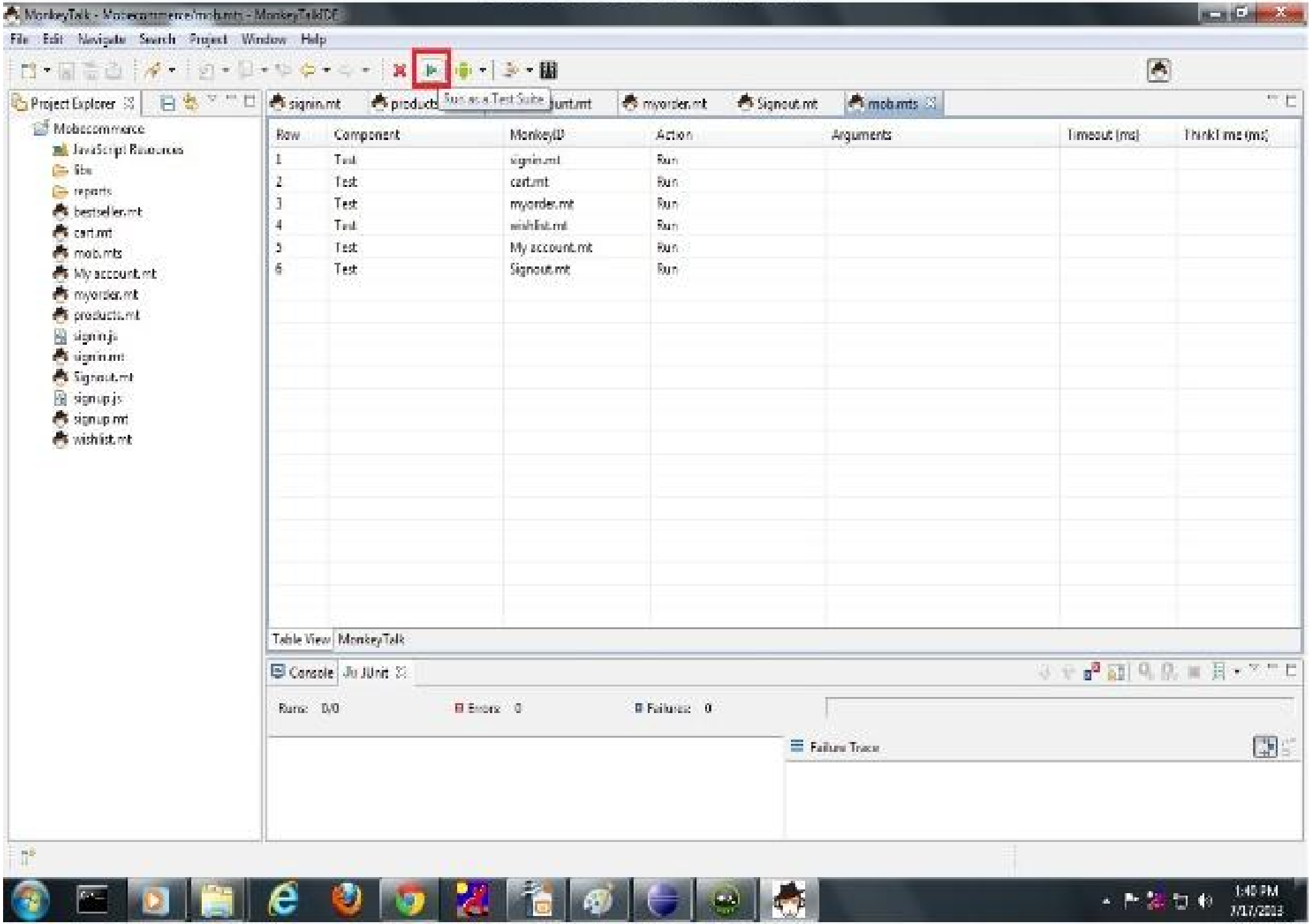
- Start MonkeyTalk
- Open the existing project.
- Select required test suite.
- Link Emulator with MonkeyTalk.
- Run as a Test Suite.
- Results generated.
- Reports generated.

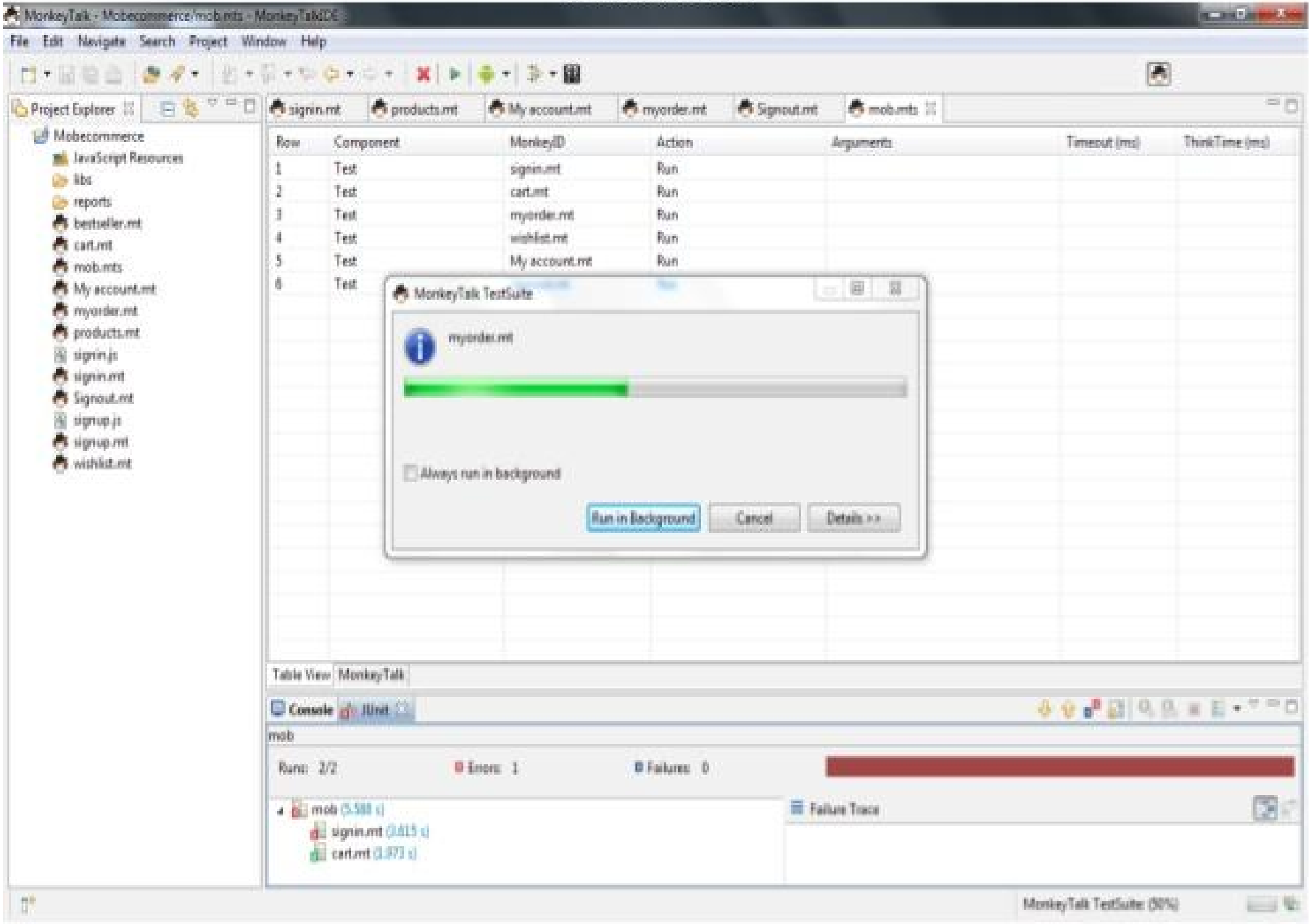
Start MonkeyTalk and open an existing project

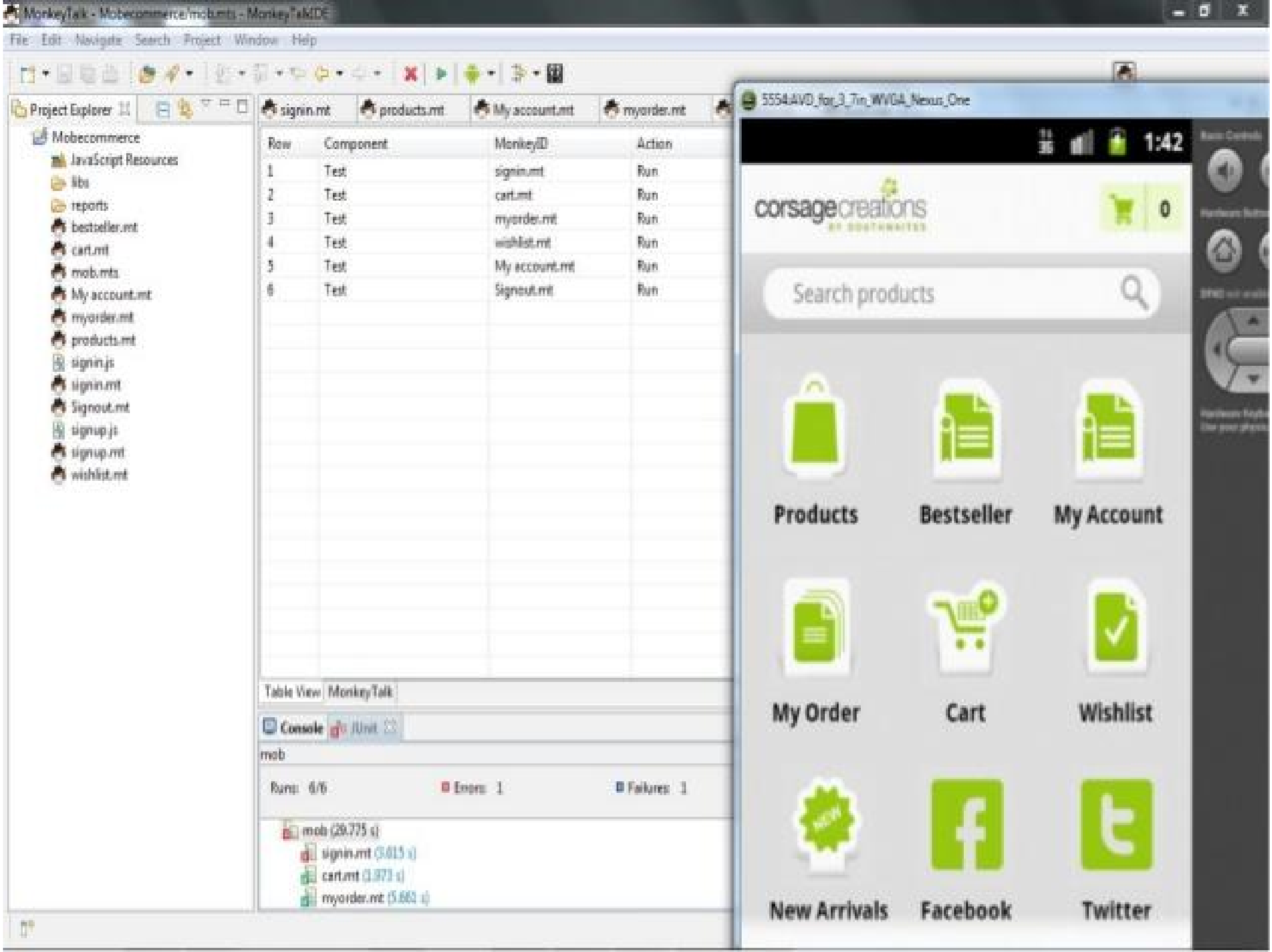


Run as a Test Suite

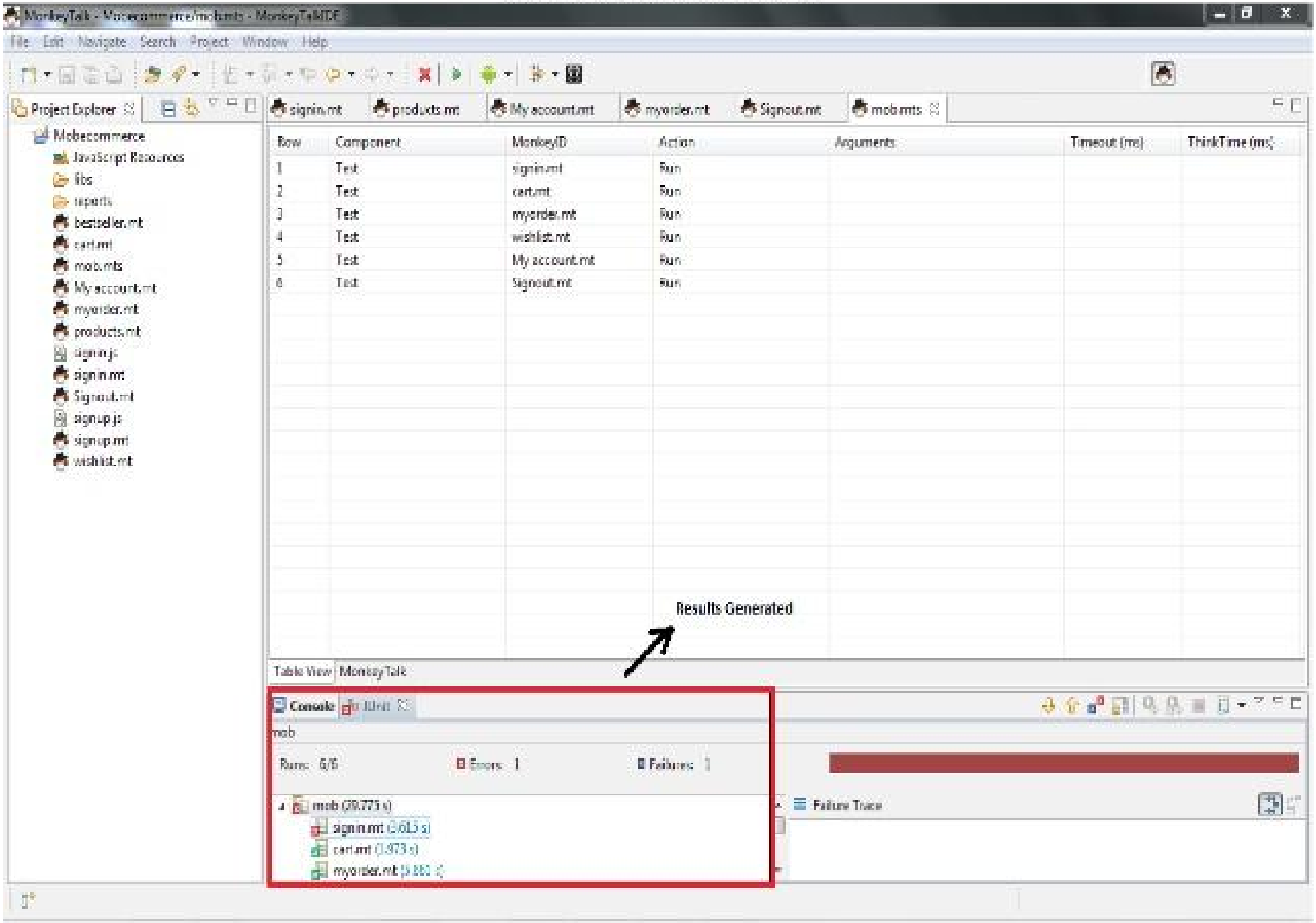


Test is Run

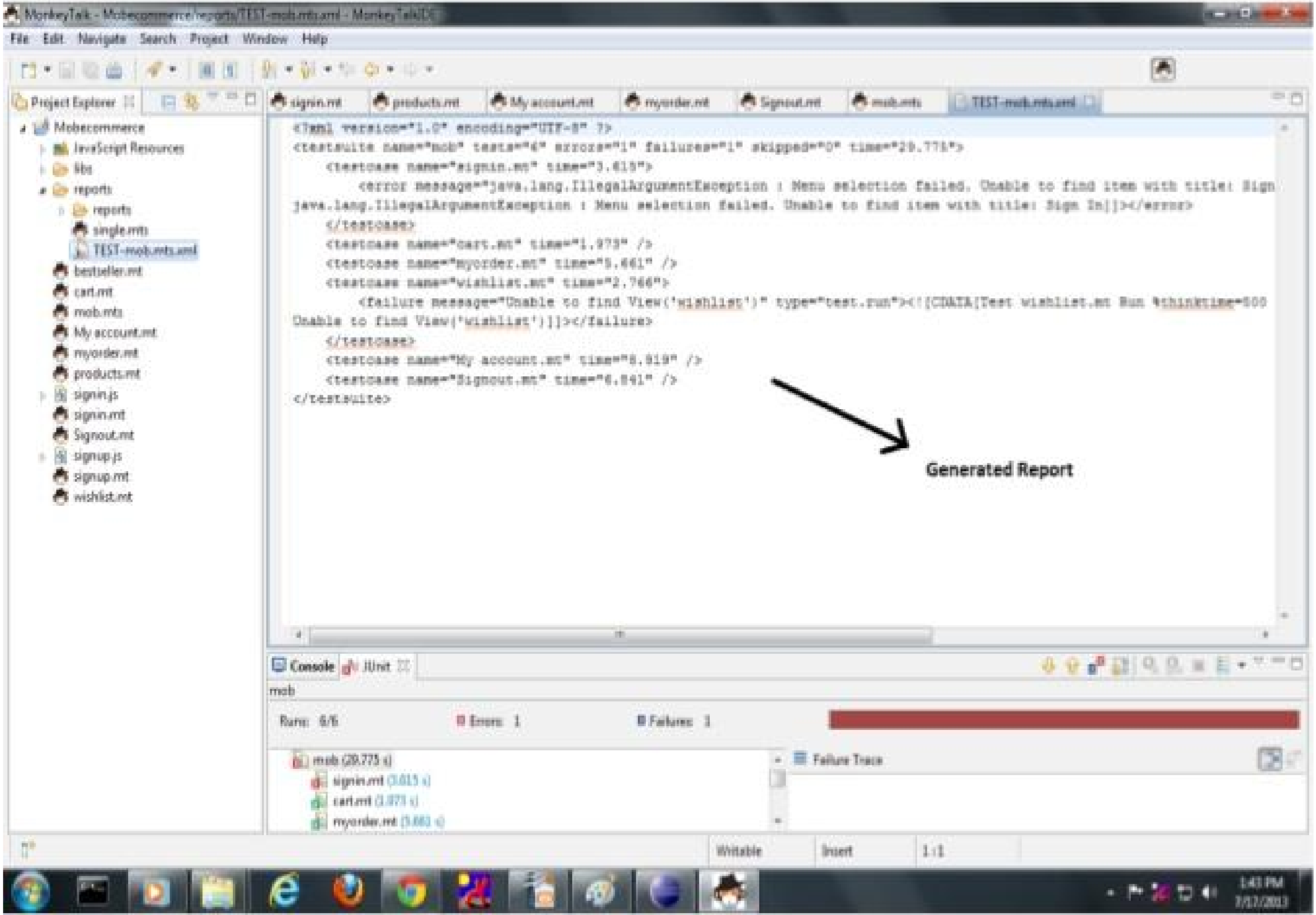

File Edit Navigate Search Project Window Help
Project Explorer
Mobecommerce
JavaScript Resources
libs
reports
bestseller.mt
cart.mt
mob.mts
My account.mt
myorder.mt
products.mt
signin.js
signin.mt
Signout.mt
signup.js
signup.mt
wishlist.mt
signin.mt
products.mt
My account.mt
myorder.mt
Signout.mt
mob.mts
Row
Component
MonkeyID
Action
Arguments
Timeout (ms)
ThinkTime (ms)
1 Test signin.mt Run
2 Test cart.mt Run
3 Test myorder.mt Run
4 Test wishlist.mt Run
5 Test My account.mt Run
6 Test
MonkeyTalk TestSuite
myorder.mt
Always run in background
Run in Background
Cancel
Details >>
Table View
MonkeyTalk
Console
JUnit
mob
Runs: 2/2
Errors: 1
Failures: 0
mob
signin.mt
cart.mt
Failure Trace
MonkeyTalk TestSuite (50%)


MonkeyTalk - Mobecommerce/mob.mts - MonkeyTalkIDE
File Edit Navigate Search Project Window Help
Project Explorer
Mobecommerce
JavaScript Resources
libs
reports
bestseller.mt
cart.mt
mob.mts
My account.mt
myorder.mt
products.mt
signin.js
signin.mt
Signout.mt
signup.js
signup.mt
wishlist.mt
signin.mt
products.mt
My account.mt
myorder.mt
Row Component MonkeyID Action
1 Test signin.mt Run
2 Test cart.mt Run
3 Test myorder.mt Run
4 Test wishlist.mt Run
5 Test My account.mt Run
6 Test Signout.mt Run
Table View MonkeyTalk
Console JUnit
mob
Runs: 6/6
Errors: 1
Failures: 1
mob (28.775 s)
signin.mt (5.815 s)
cart.mt (3.373 s)
myorder.mt (5.662 s)
5554:AVD_for_3_7in_WVGA_Nexus_One
1:42
corsagecreations
0
Search products
Products
Bestseller
My Account
My Order
Cart
Wishlist
New Arrivals
Facebook
Twitter

Results Generated



Generated Report



Report

signin.mt | products.mt | My account.mt | myorder.mt | Signout.mt | mob.mts | TEST-mob.mts.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<testsuite name="mob" tests="6" errors="1" failures="1" skipped="0" time="29.775">
    <testcase name="signin.mt" time="3.615">
        <error message="java.lang.IllegalArgumentException : Menu selection failed. Unable to find item
java.lang.IllegalArgumentException : Menu selection failed. Unable to find item with title: Sign In]]><
    </testcase>
    <testcase name="cart.mt" time="1.973" />
    <testcase name="myorder.mt" time="5.661" />
    <testcase name="wishlist.mt" time="2.766">
        <failure message="Unable to find View('wishlist')" type="test.run"><![CDATA[Test wishlist.mt Ru
Unable to find View('wishlist')]]></failure>
    </testcase>
    <testcase name="My account.mt" time="8.919" />
    <testcase name="Signout.mt" time="6.841" />
</testsuite>
```