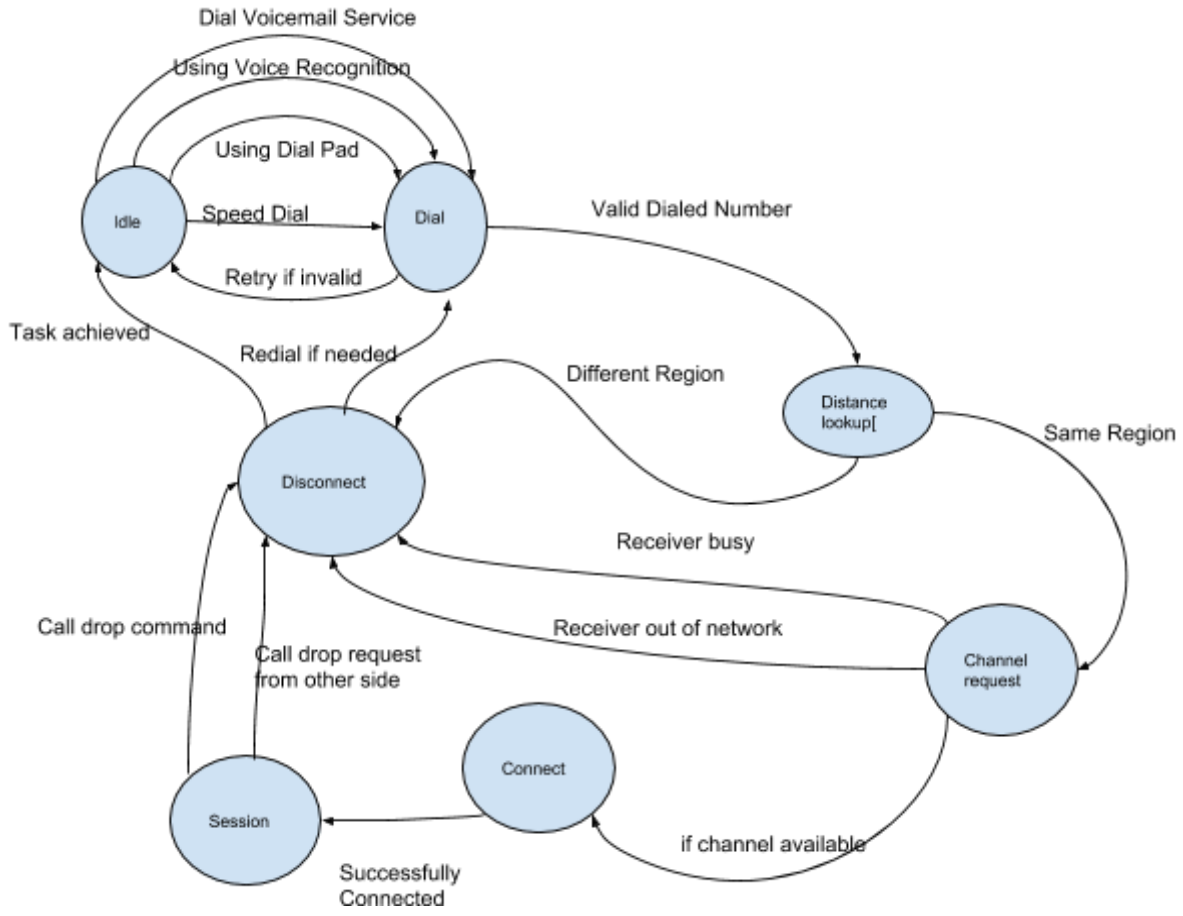
Finite State Machines for the following:

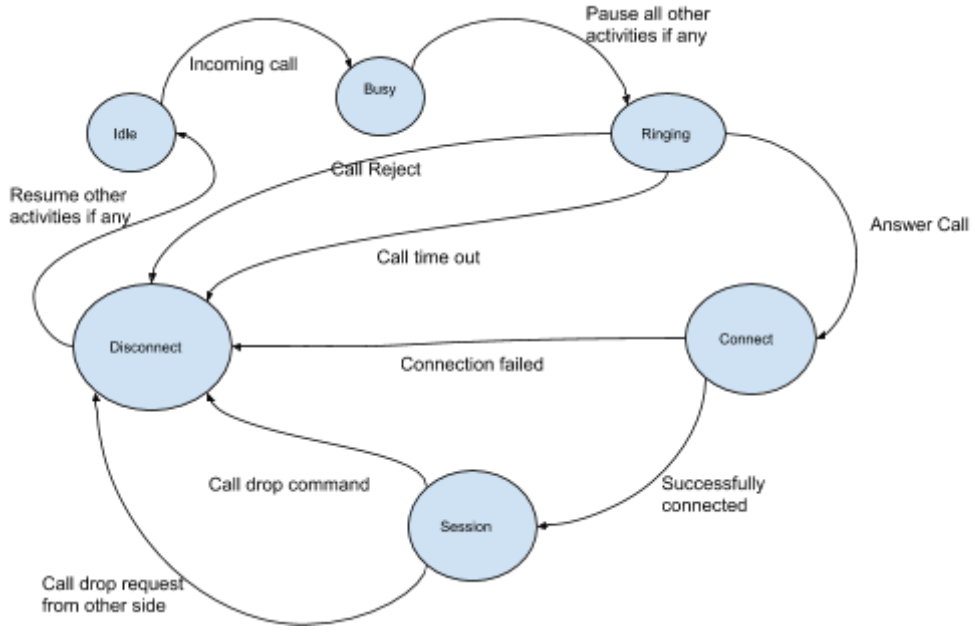
1. Handle outgoing calls using number keypad/verbal/speed dialing methods



1. Dial voicemail service
Expected Result: Voicemail service offers missed voicemails
2. Recognize speech and dial requested number
Expected Result: Given contact number is dialed if valid
3. Dialed using keypad
Expected Result: Given contact number is dialed if valid
4. Dialed through speed contact
Expected Result: Given contact number is dialed if valid
5. Invalid number dialed
Expected Result: Prompt back for retry
6. Valid number dialed
Expected Result: Request region of both devices
7. Same region
Expected Result: Request communication channels from base station
8. Different region

Expected Result: Disconnect the call
9. Receiver busy
Expected Result: Disconnect the call
10. Receiver out of network
Expected Result: Disconnect the call
11. Receiver available
Expected Result: Occupy offered channel
12. Successful connection
Expected Result: Initiate session
13. Call drop request from receiver side
Expected Result: Disconnect the call
14. Drop the call
Expected Result: Disconnect the call
15. Successful termination of the call
Expected Result: Cell state updated back to idle state
16. Unsuccessful termination of the call
Expected Result: Redial the contact number

2. Handle incoming call

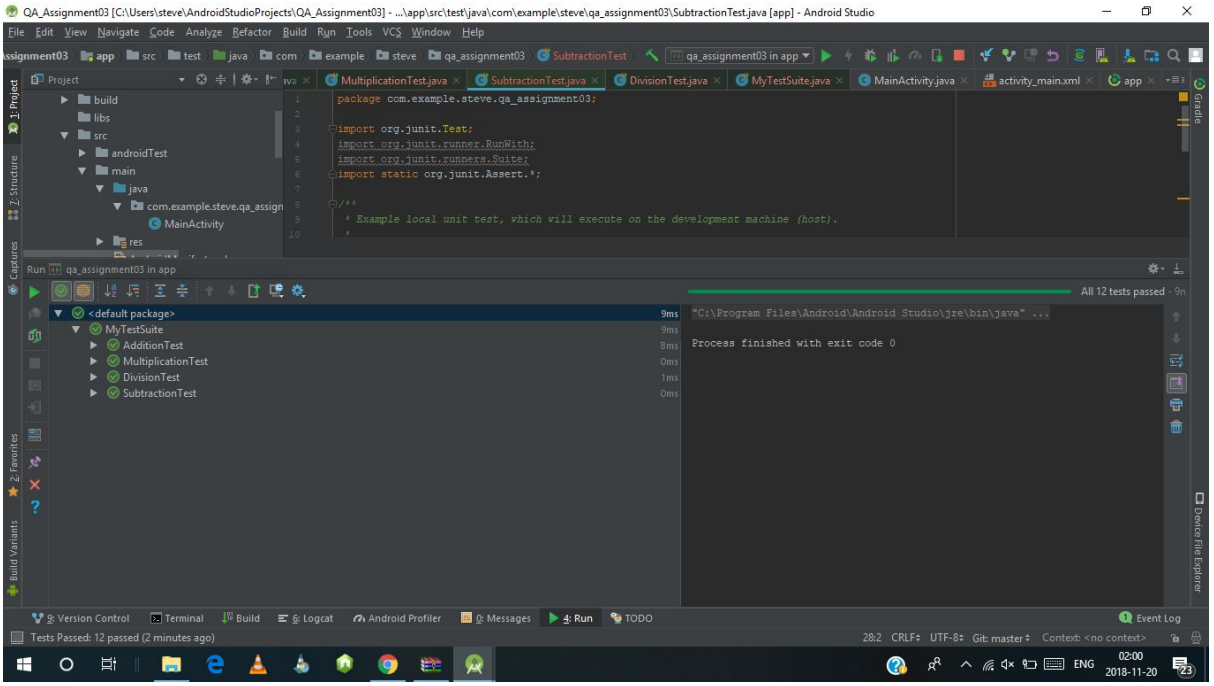


1. Incoming call request arrives
Expected Result: Update cell state to busy
2. Ring the cell
Expected Result: Start ringing until incoming call gets responded or time out occurs
3. Answer the incoming call

Expected Result: Attempt to connect to network channel
4. Call Rejected
Expected Result: Release occupied channels if any
5. Call Timed Out
Expected Result: Release occupied channels if any
6. Connection Failed
Expected Result: Release occupied channels if any
7. Connection Established
Expected Result: Occupy the channel offered by local base station
8. Call drop request from receiver side
Expected Result: Disconnect the call
9. Drop the call
Expected Result: Disconnect the call
10. Successful termination of the call
Expected Result: Cell state updated back to idle state

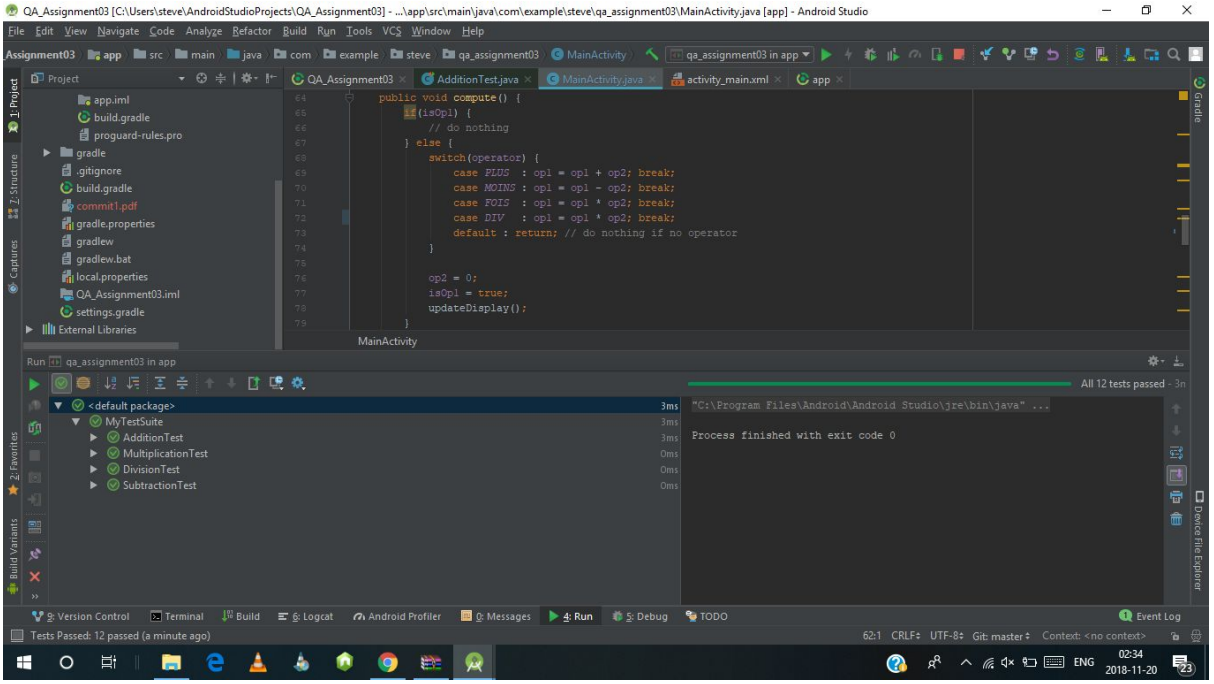
Question 2:

1.
2.
3. Screenshot of the Test cases: Test passed

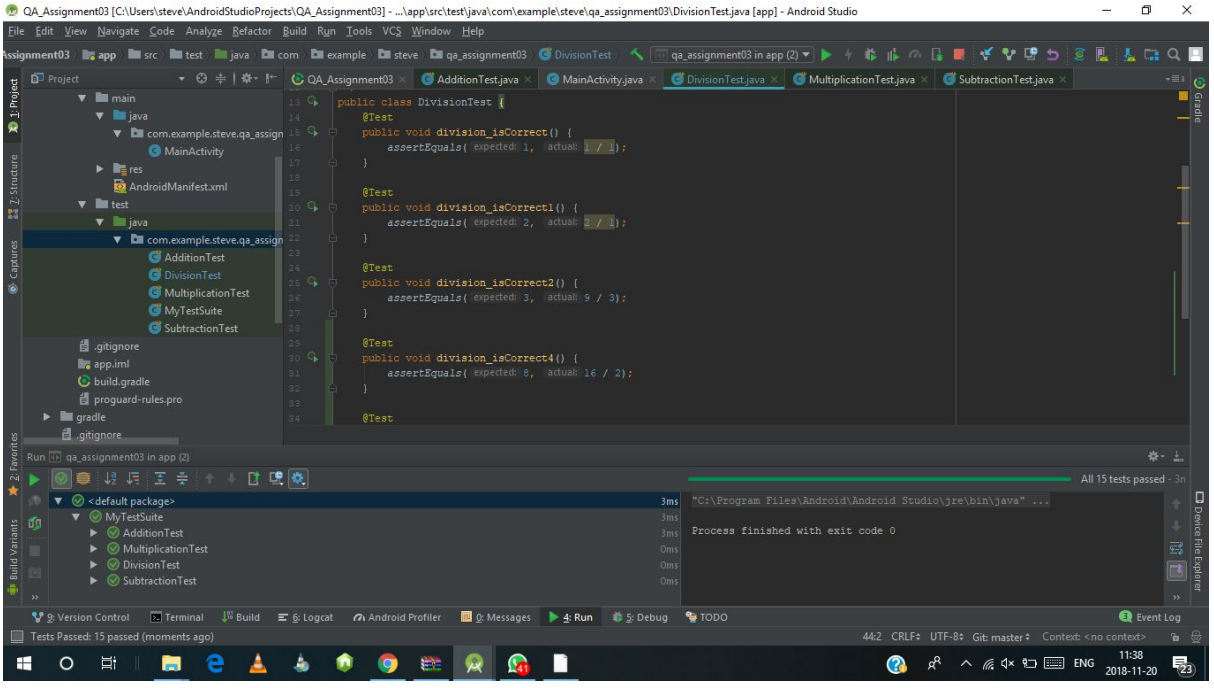


4. Create mutant
Change division into multiplication

5. Re-run of the Test

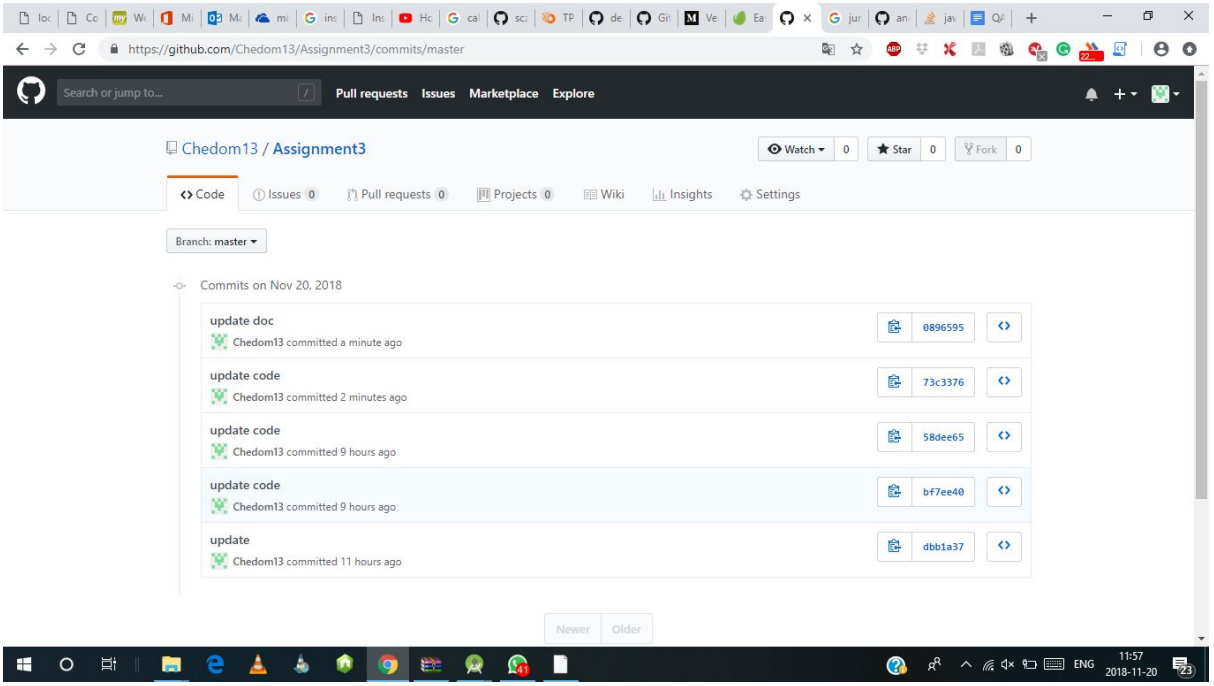


6. The result of unit test was pass.
7. argument (1,1), (2,1),(9,3)



8. The result of the unit test in this was pass. It tell us us that the test case we implement was not strong enough to detect the change in the program .
   In conclusion we need to change the test case and implement something better that will detect and fail the mutant.

commit


https://github.com/Chedom13/Assignment3/commits/master
Search or jump to...
Pull requests
Issues
Marketplace
Explore
Chedom13 / Assignment3
Watch 0
Star 0
Fork 0
Code
Issues 0
Pull requests 0
Projects 0
Wiki
Insights
Settings
Branch: master
Commits on Nov 20, 2018
update doc
Chedom13 committed a minute ago
0896595
update code
Chedom13 committed 2 minutes ago
73c3376
update code
Chedom13 committed 9 hours ago
58dee65
update code
Chedom13 committed 9 hours ago
bf7ee40
update
Chedom13 committed 11 hours ago
dbb1a37
Newer
Older
ENG
11:57
2018-11-20