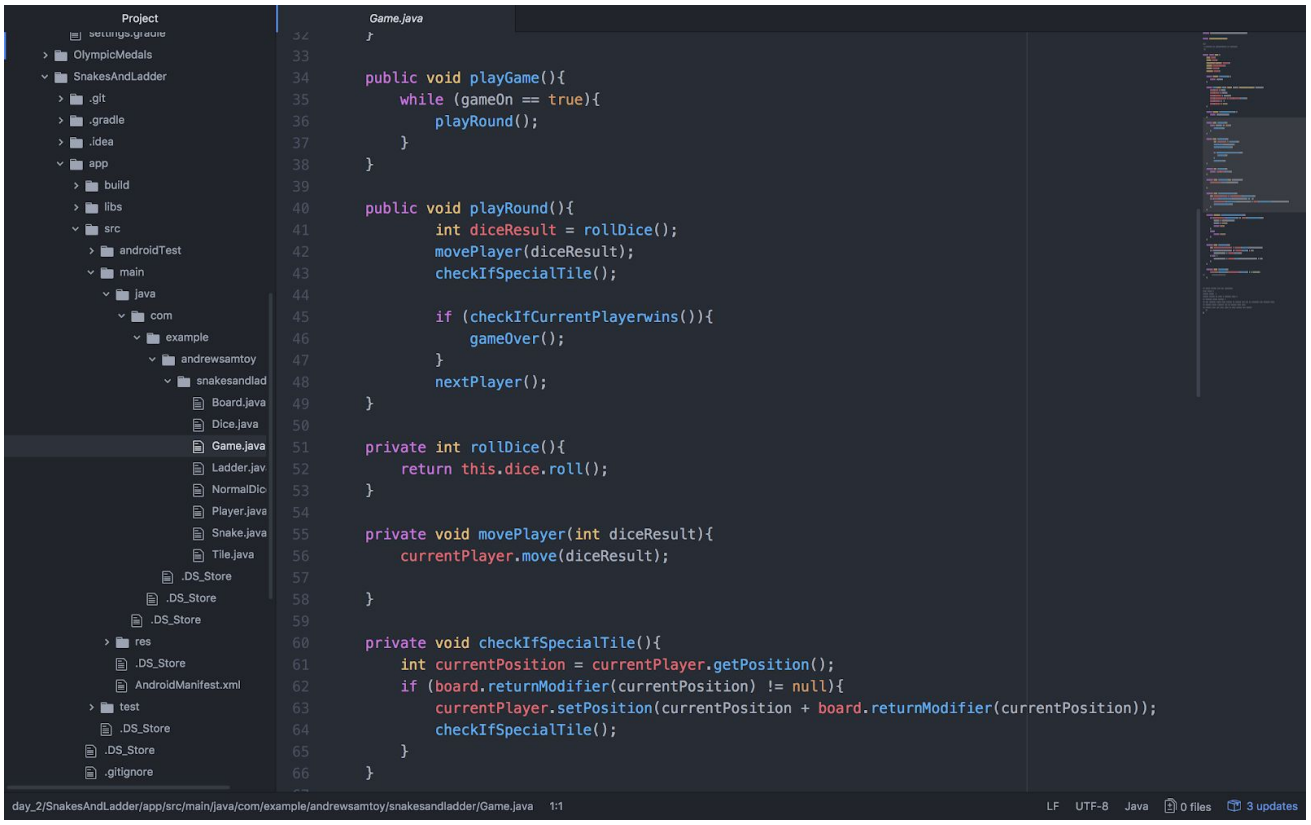
I.T. 1 - Encapsulation

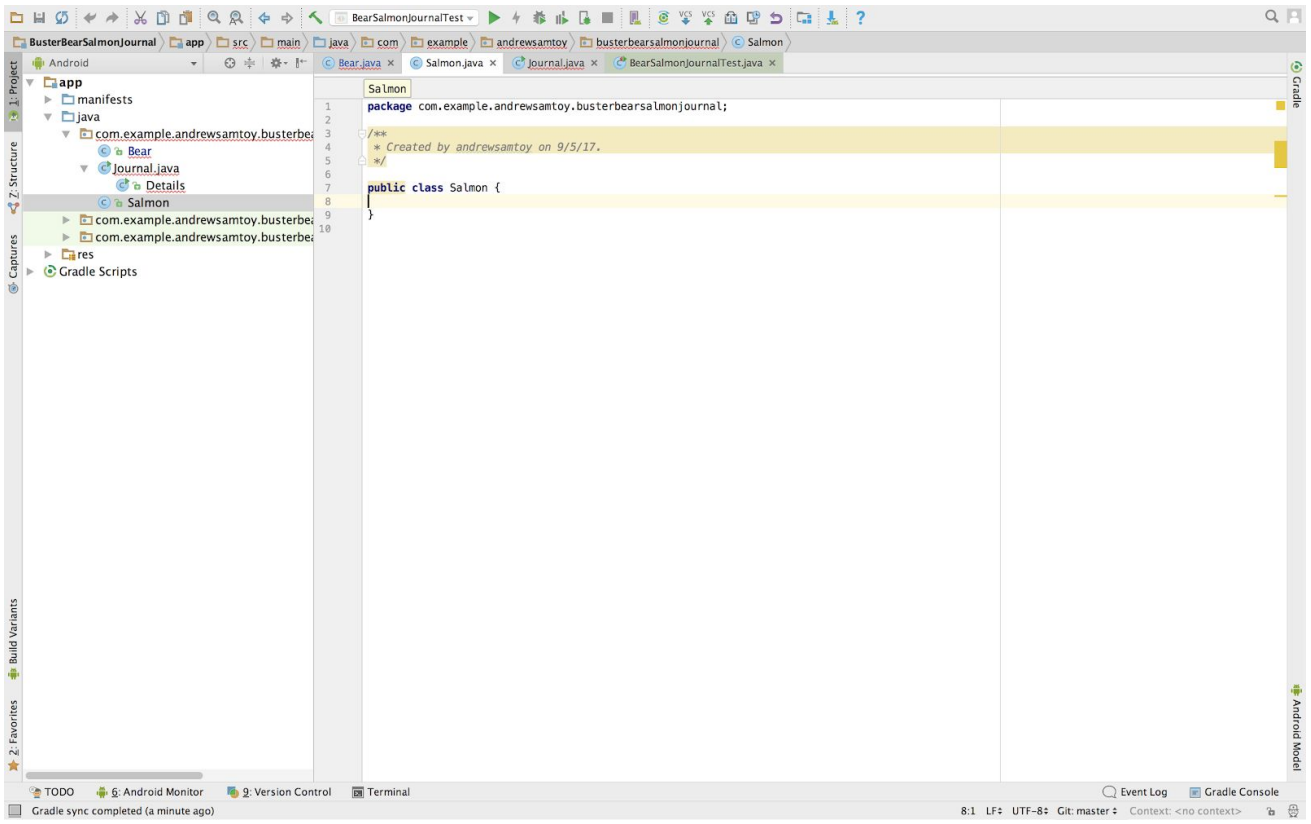
Take a screenshot of an example of encapsulation in a program.



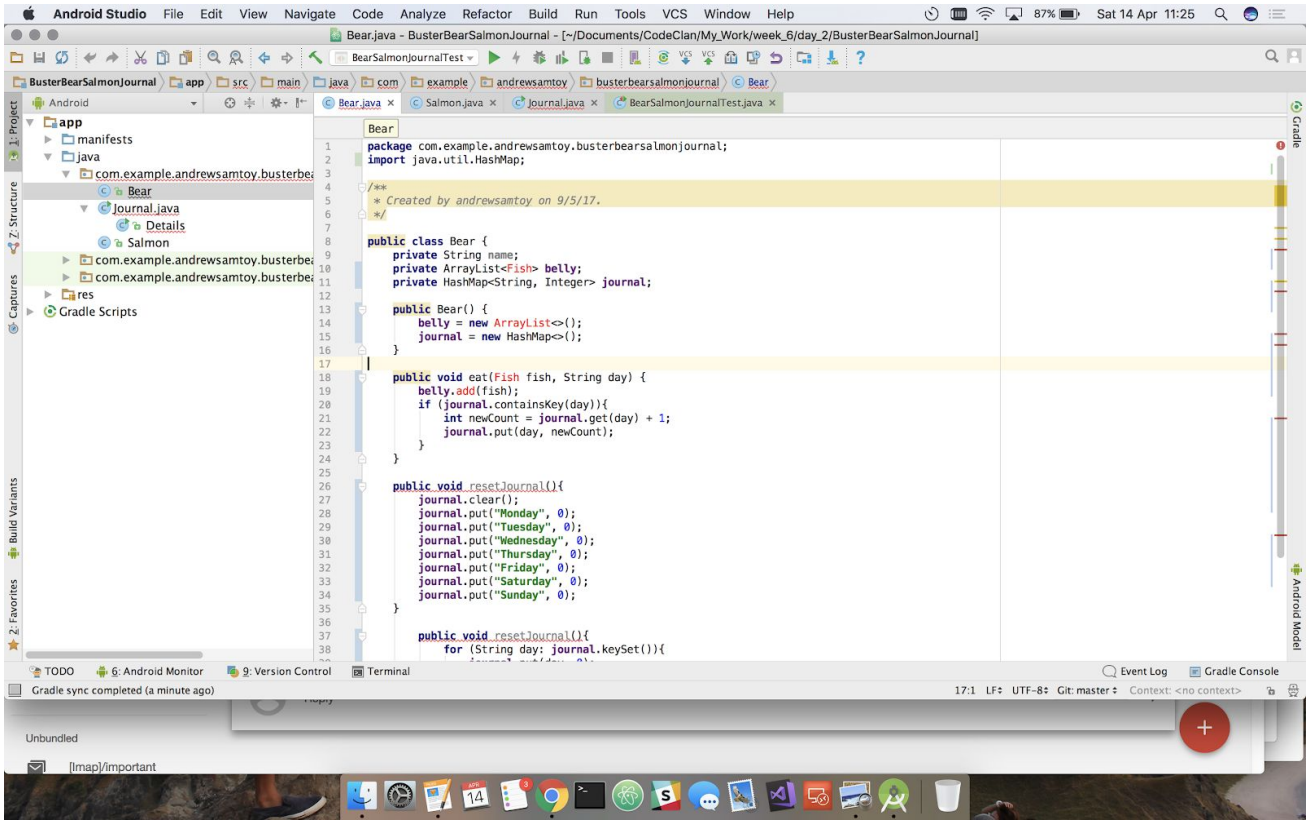
I.T. 2 - Inheritance in a program

Take a screenshot of the use of Inheritance in a program. Take screenshots of:

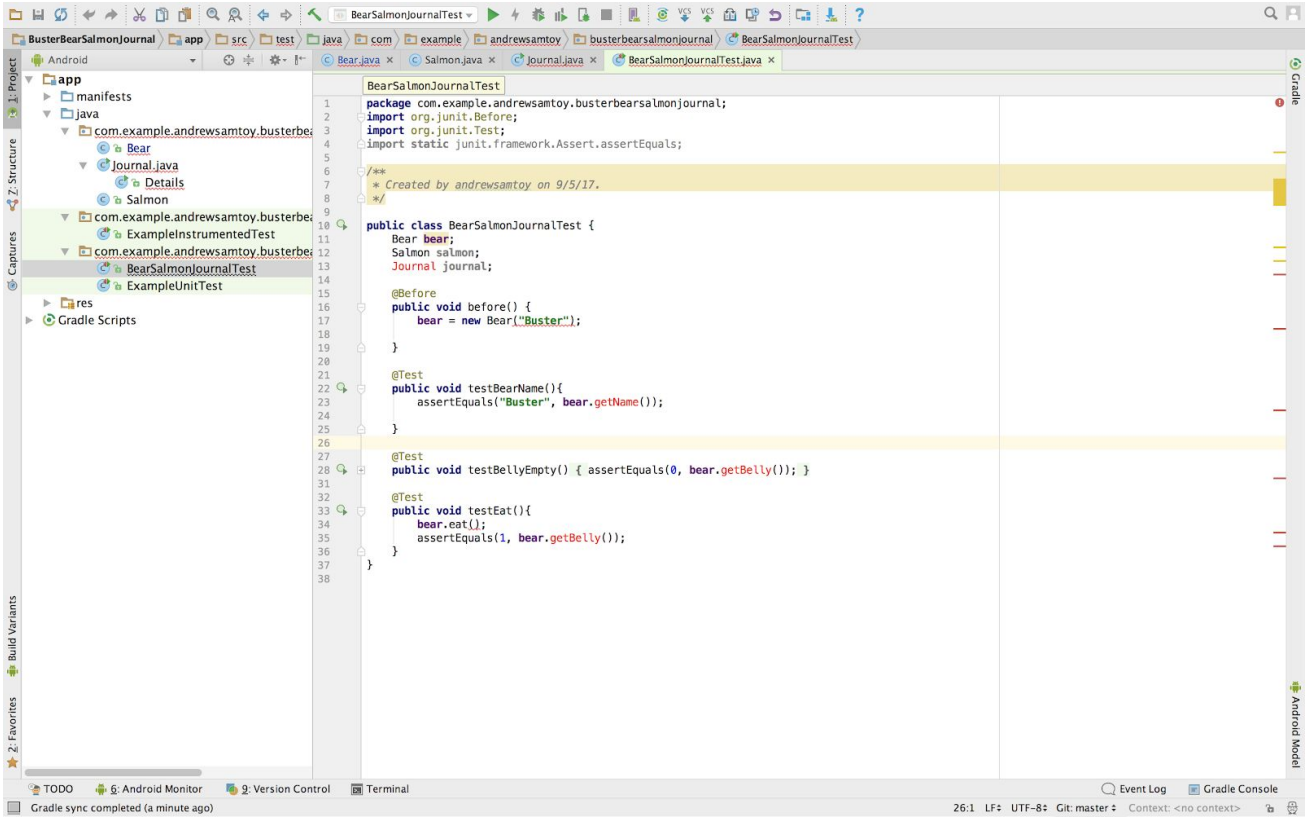
- A Class



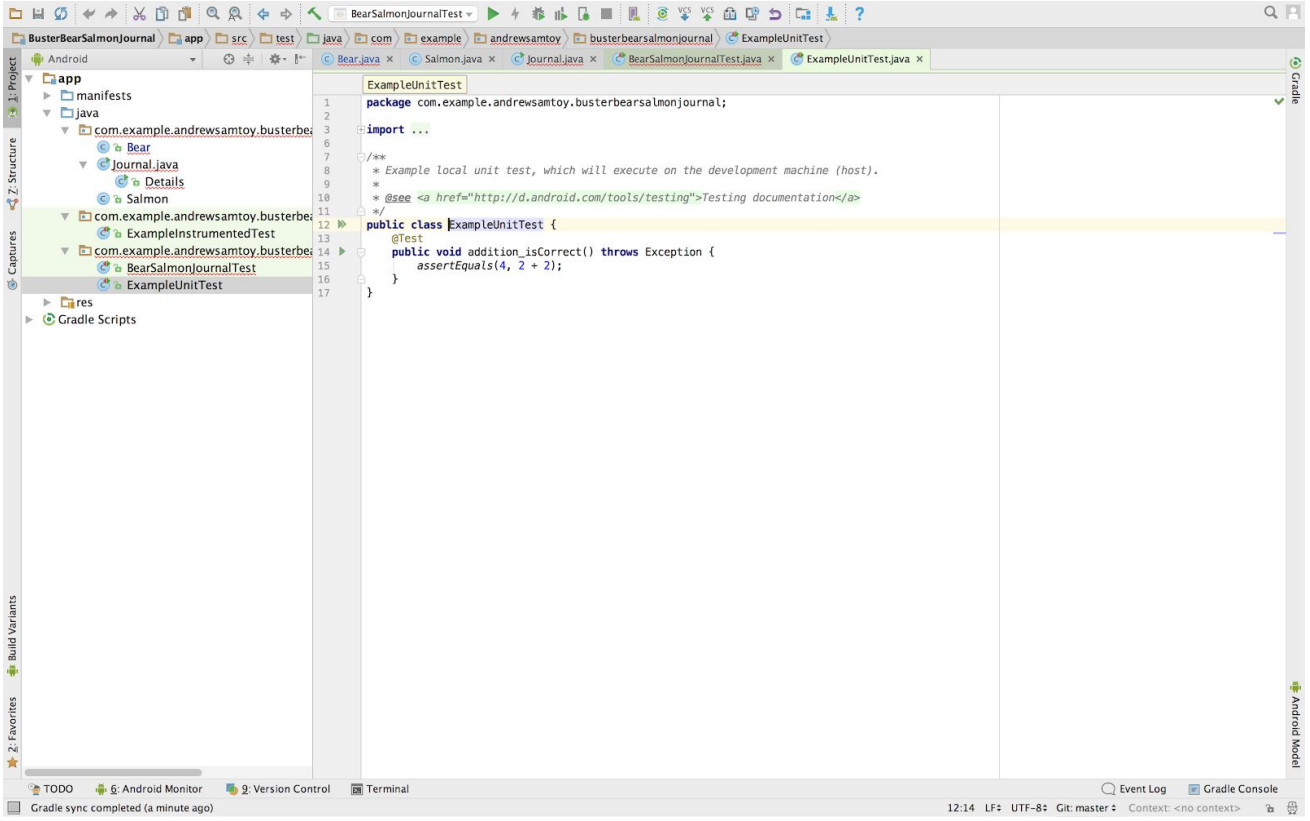
- A Class that inherits from the previous class



- An Object in the inherited class



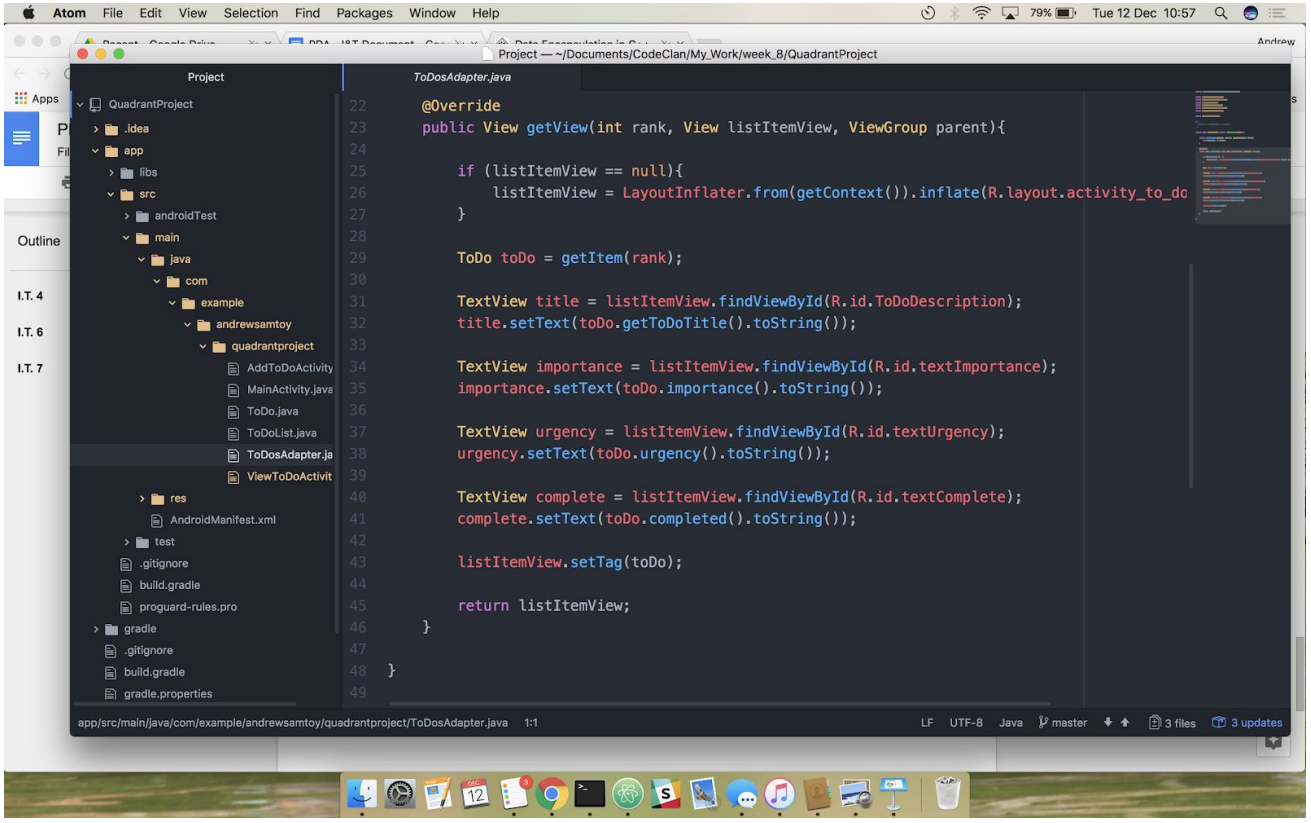
- A Method that uses the information inherited from another class.



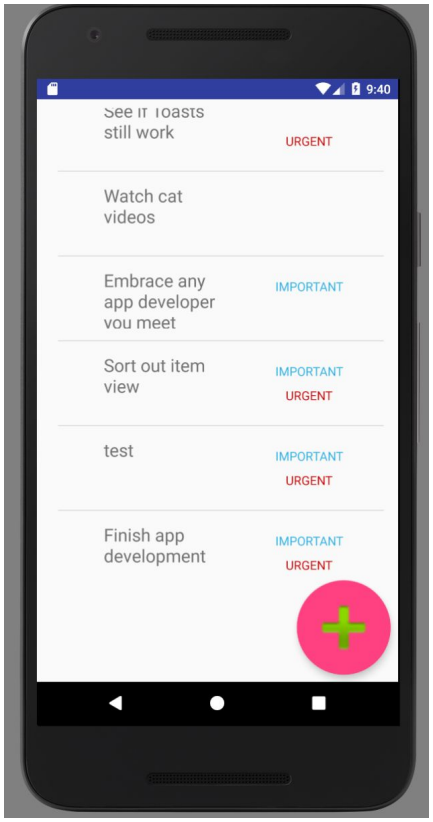
I.T. 3

Demonstrate searching data in a program. Take screenshots of:

- Function that searches data



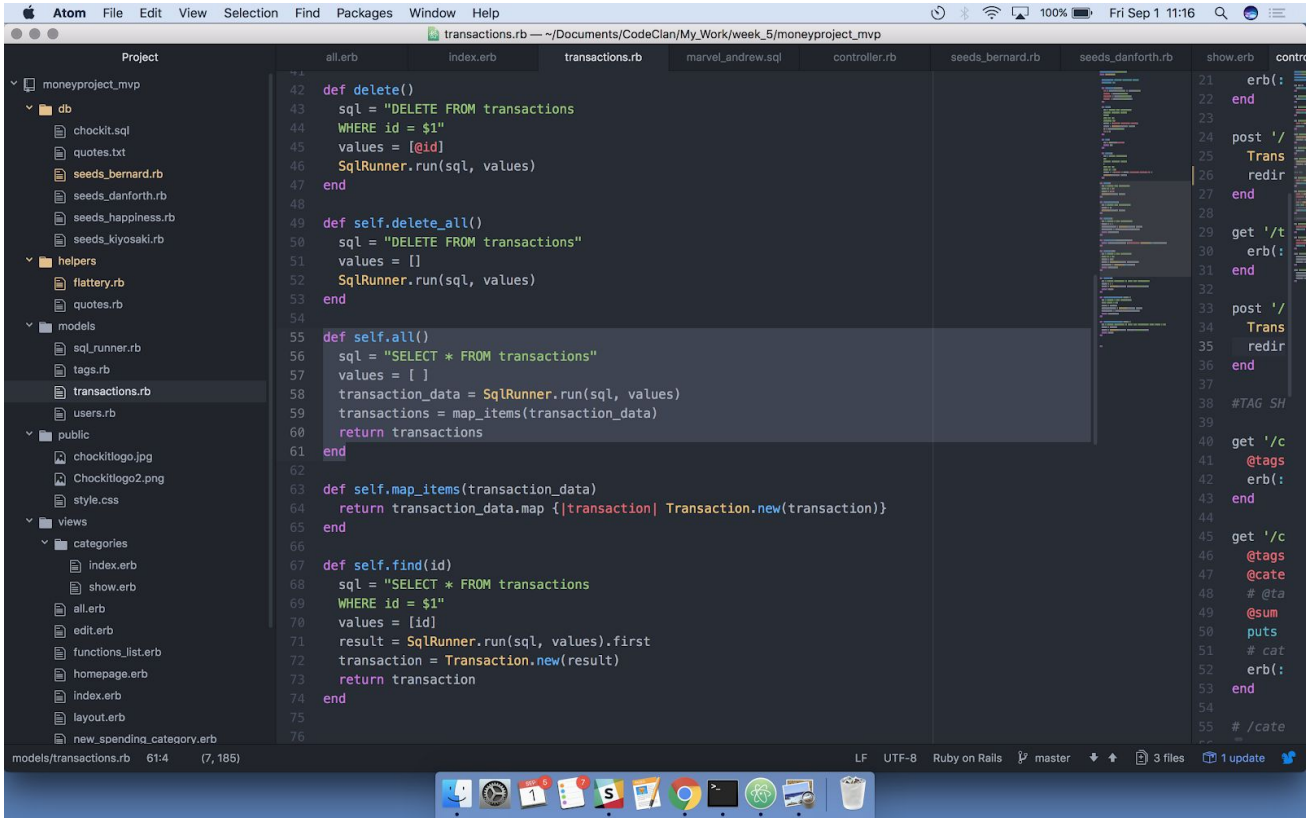
- The result of the function running



I.T. 4

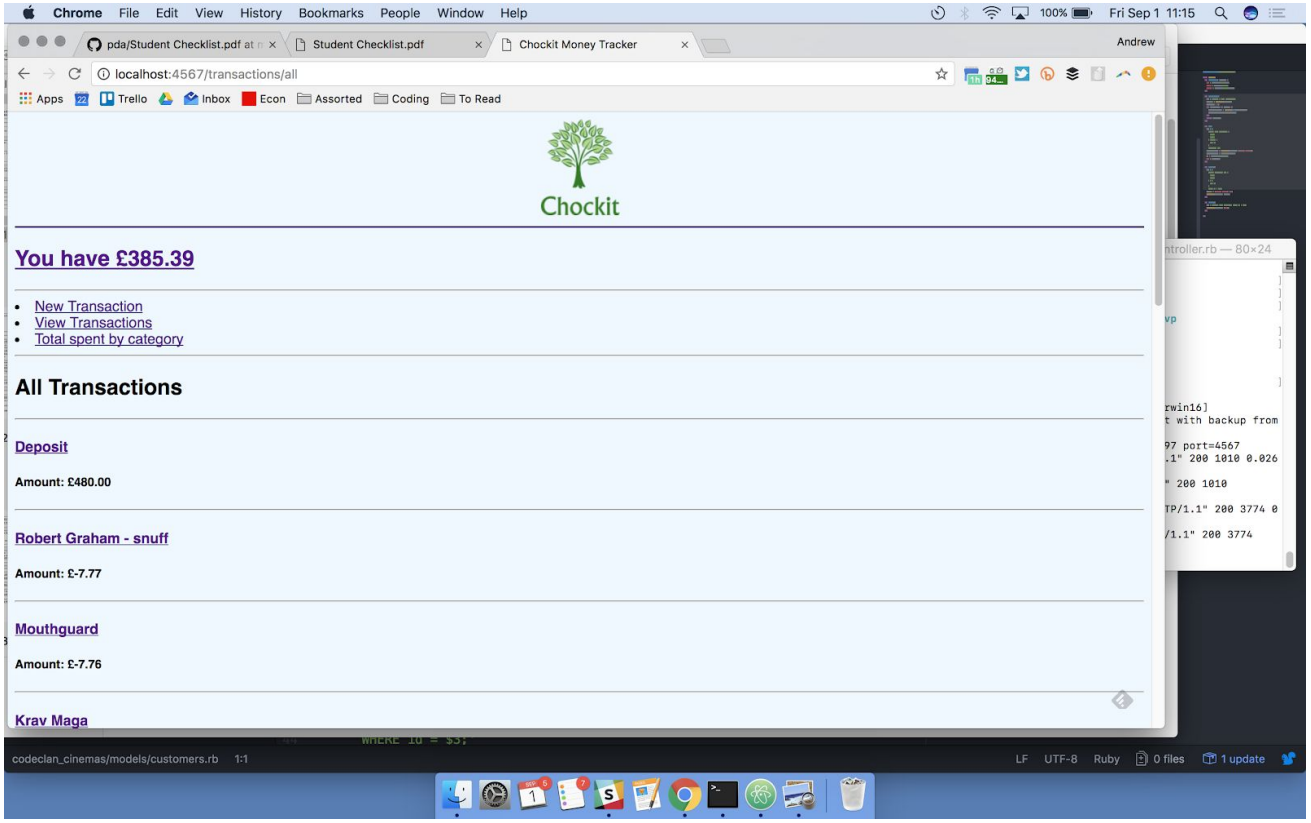
Demonstrate sorting data in a program. Take screenshots of:

- Function that sorts data



```ruby
def delete()
  sql = "DELETE FROM transactions
  WHERE id = $1"
  values = [@id]
  SqlRunner.run(sql, values)
end

def self.delete_all()
  sql = "DELETE FROM transactions"
  values = []
  SqlRunner.run(sql, values)
end

def self.all()
  sql = "SELECT * FROM transactions"
  values = [ ]
  transaction_data = SqlRunner.run(sql, values)
  transactions = map_items(transaction_data)
  return transactions
end

def self.map_items(transaction_data)
  return transaction_data.map {|transaction| Transaction.new(transaction)}
end

def self.find(id)
  sql = "SELECT * FROM transactions
  WHERE id = $1"
  values = [id]
  result = SqlRunner.run(sql, values).first
  transaction = Transaction.new(result)
  return transaction
end
```

- The result of the function running

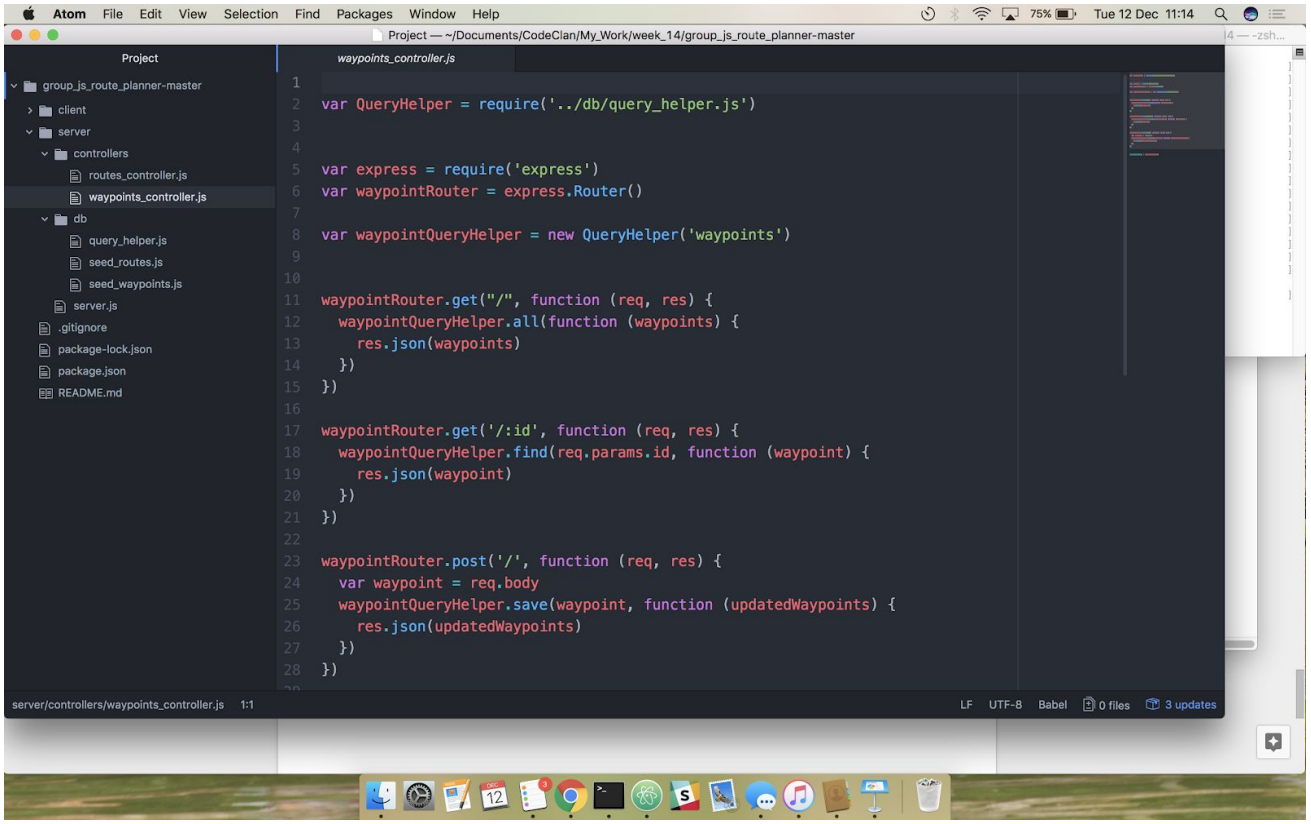


I.T. 5

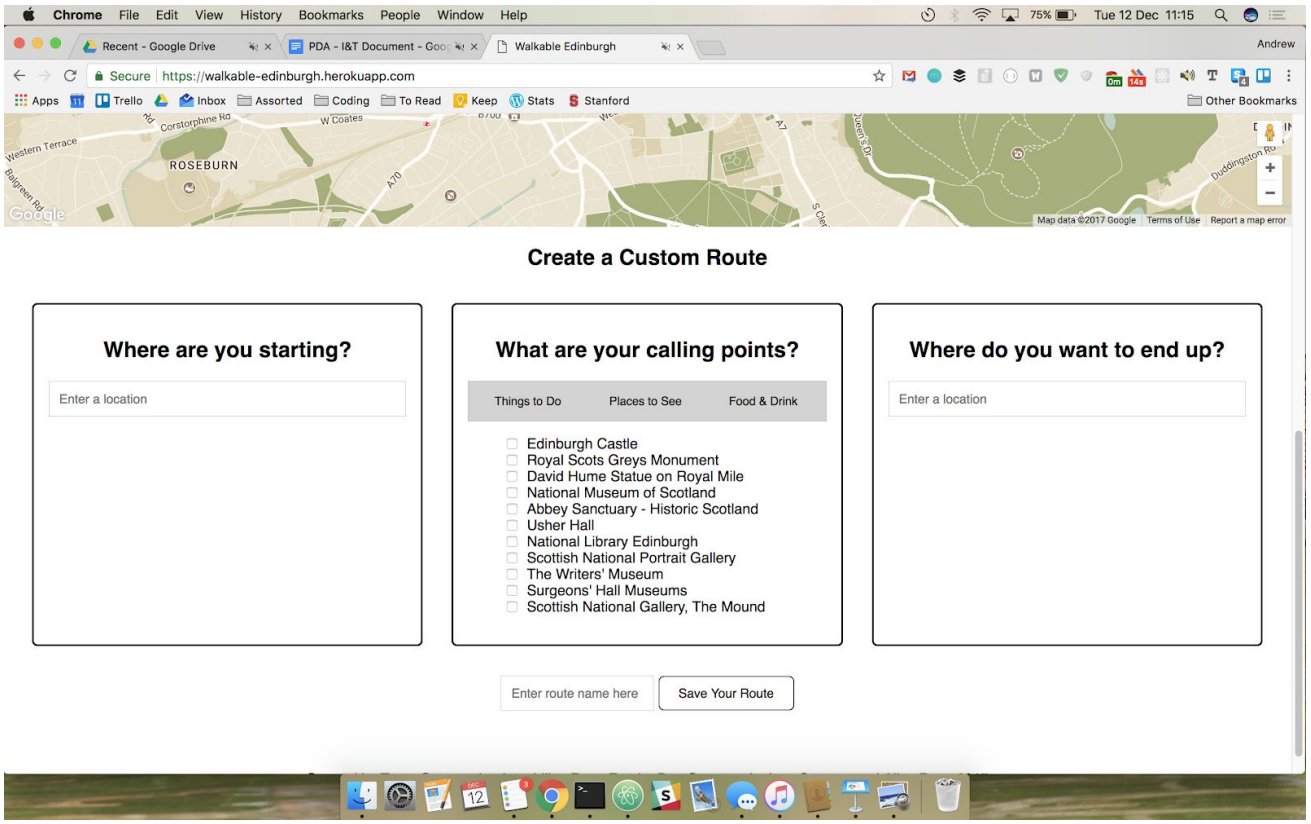
Demonstrate the use of an array in a program. Take screenshots of:

- An array in a program

- A function that uses the array



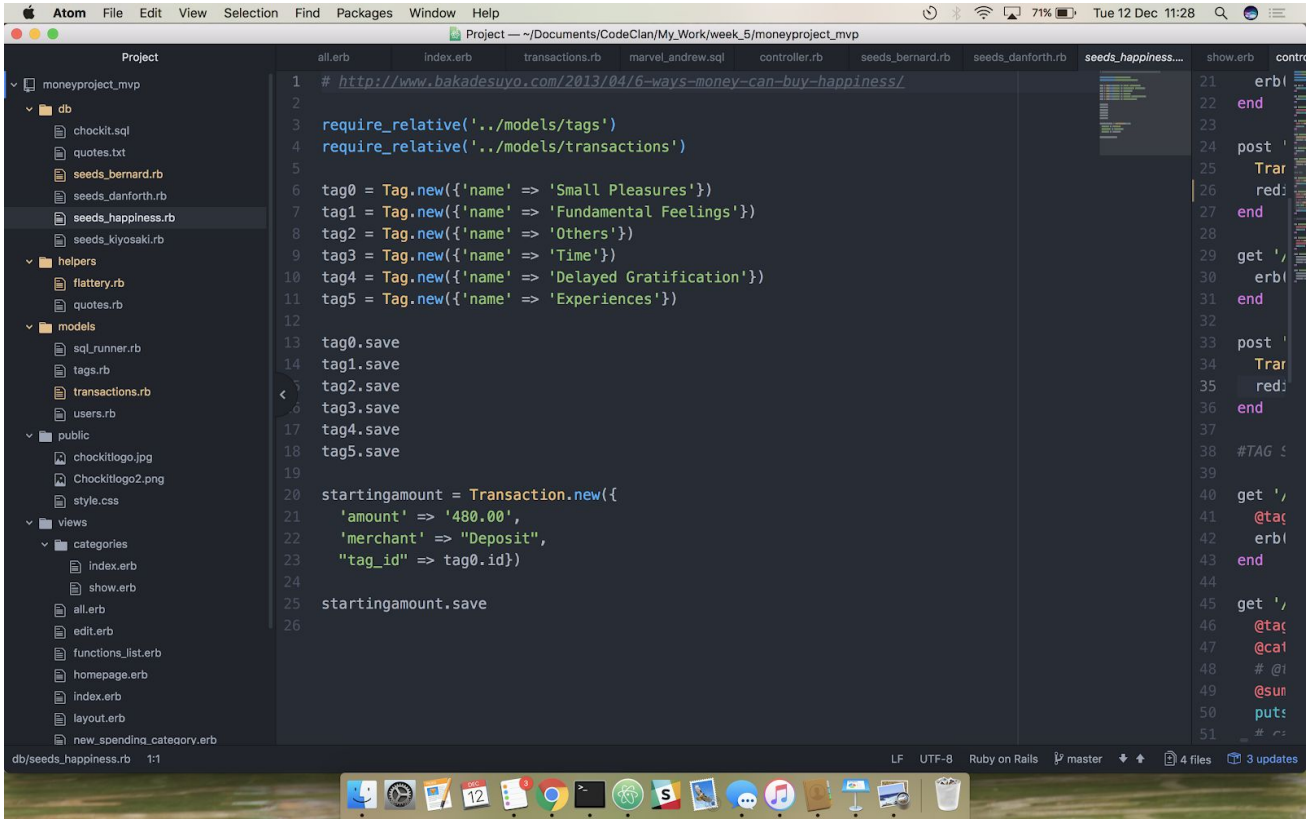
- The result of the function running



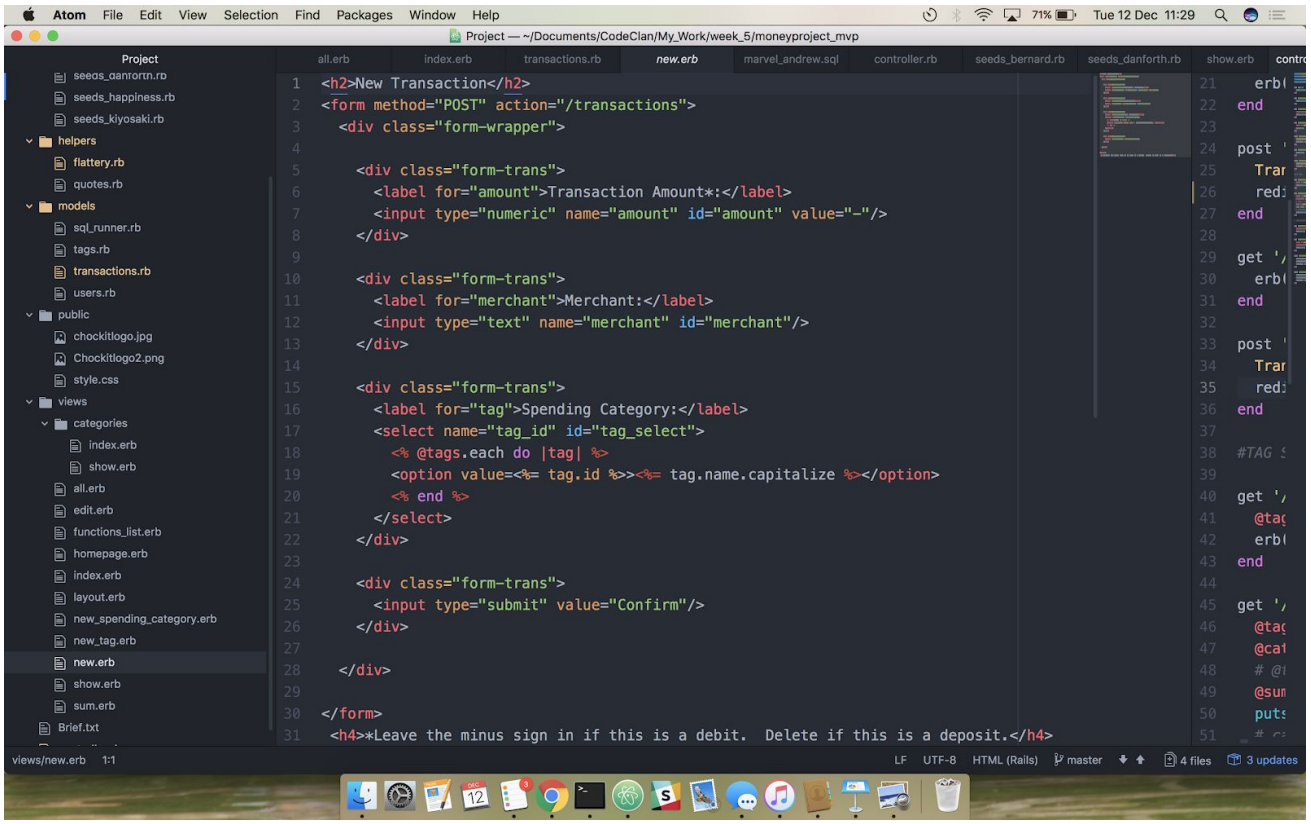
I.T. 6

Demonstrate the use of a hash in a program. Take screenshots of:

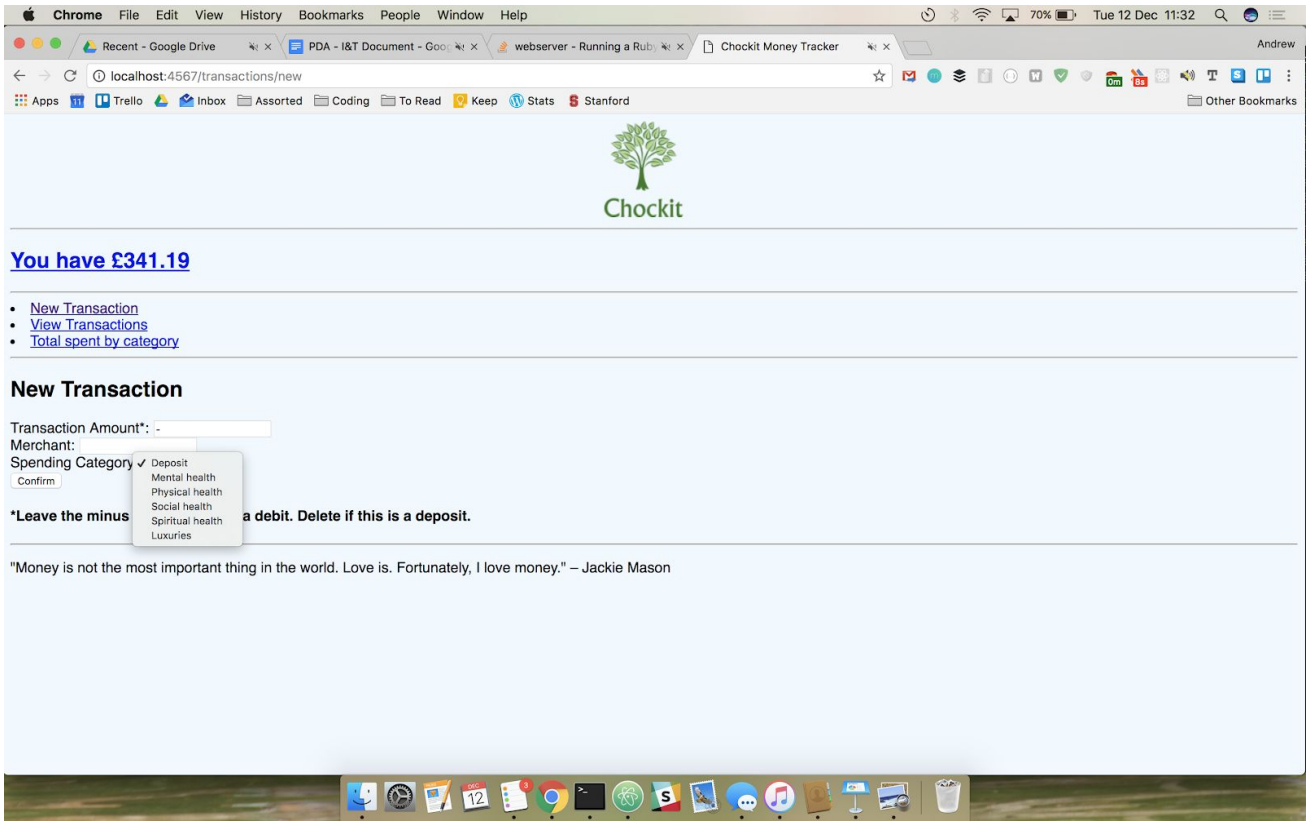
- A hash in a program



- A function that uses the hash

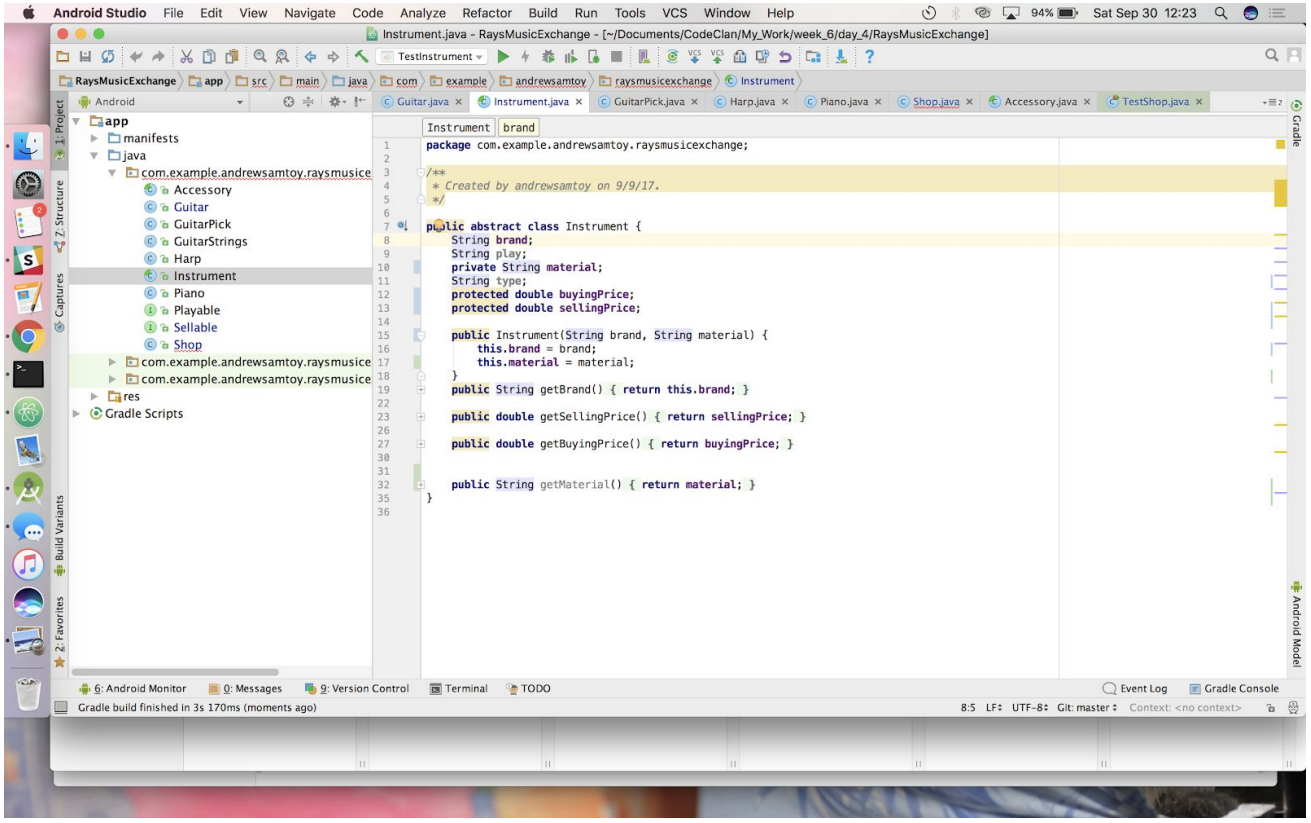


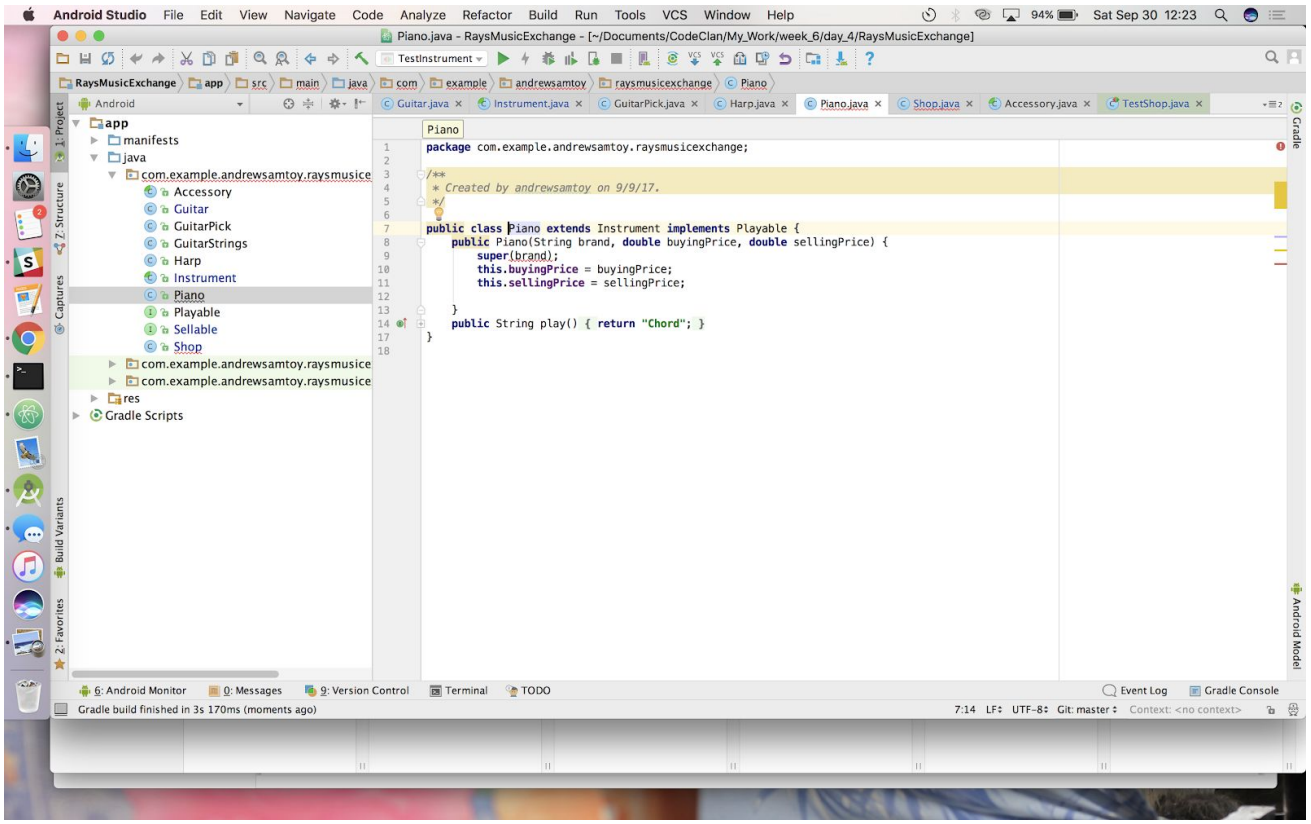
- The result of the function running

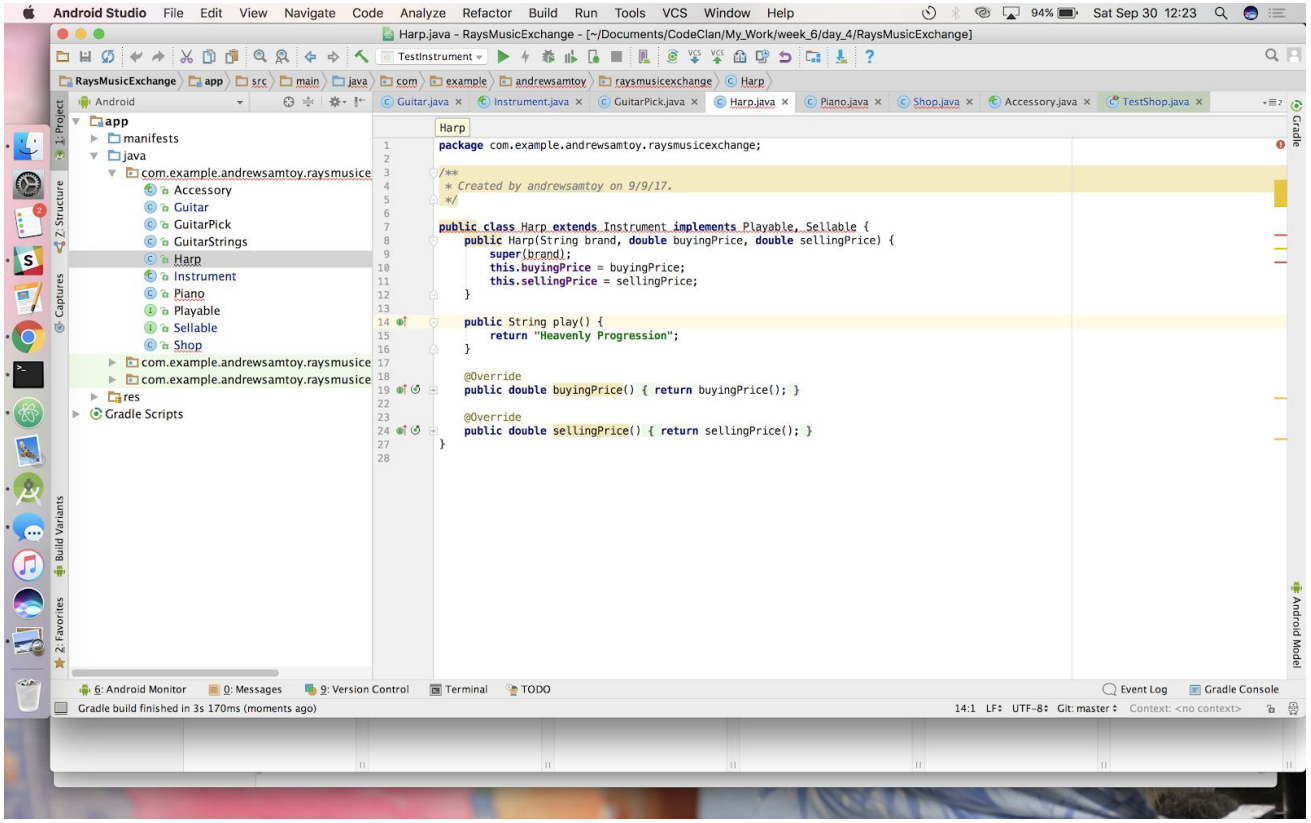


I.T. 7

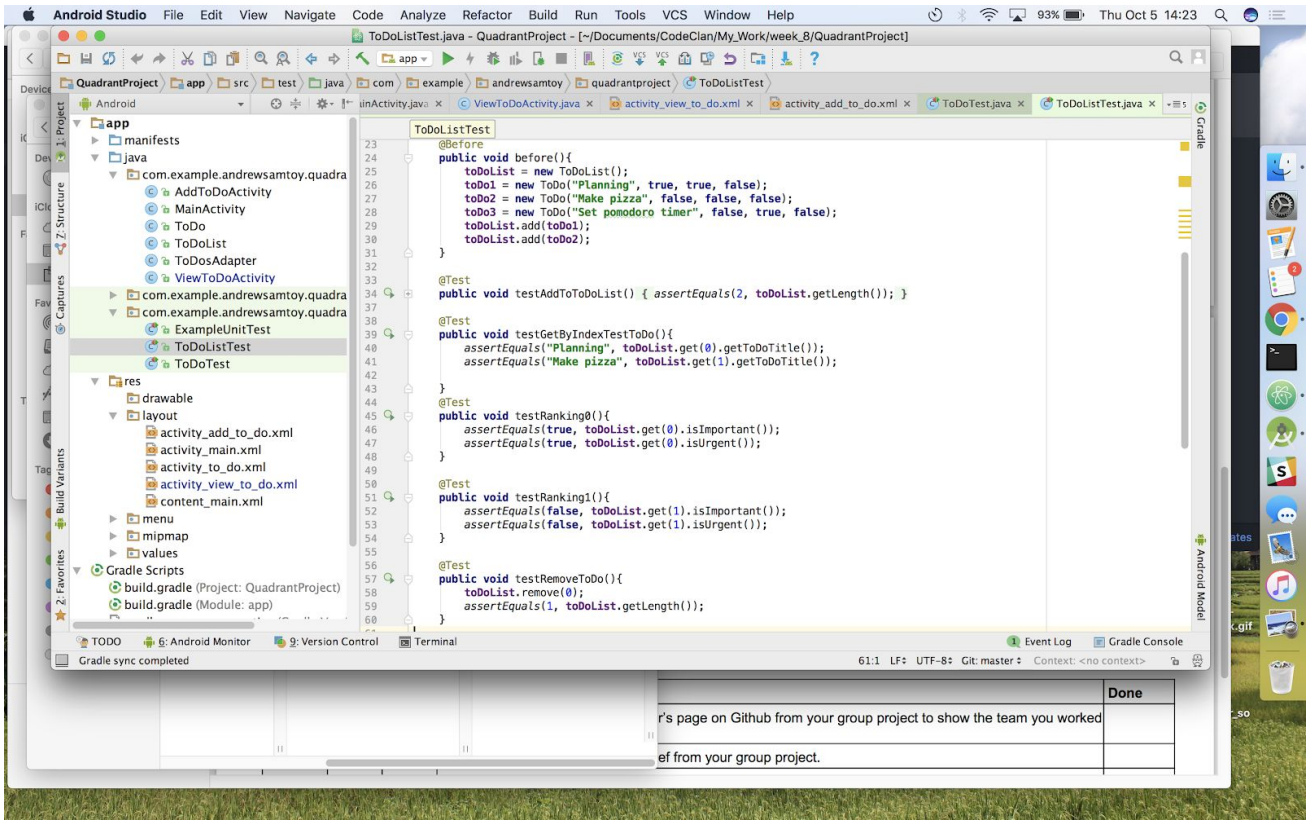
Demonstrate the use of Polymorphism in a program.

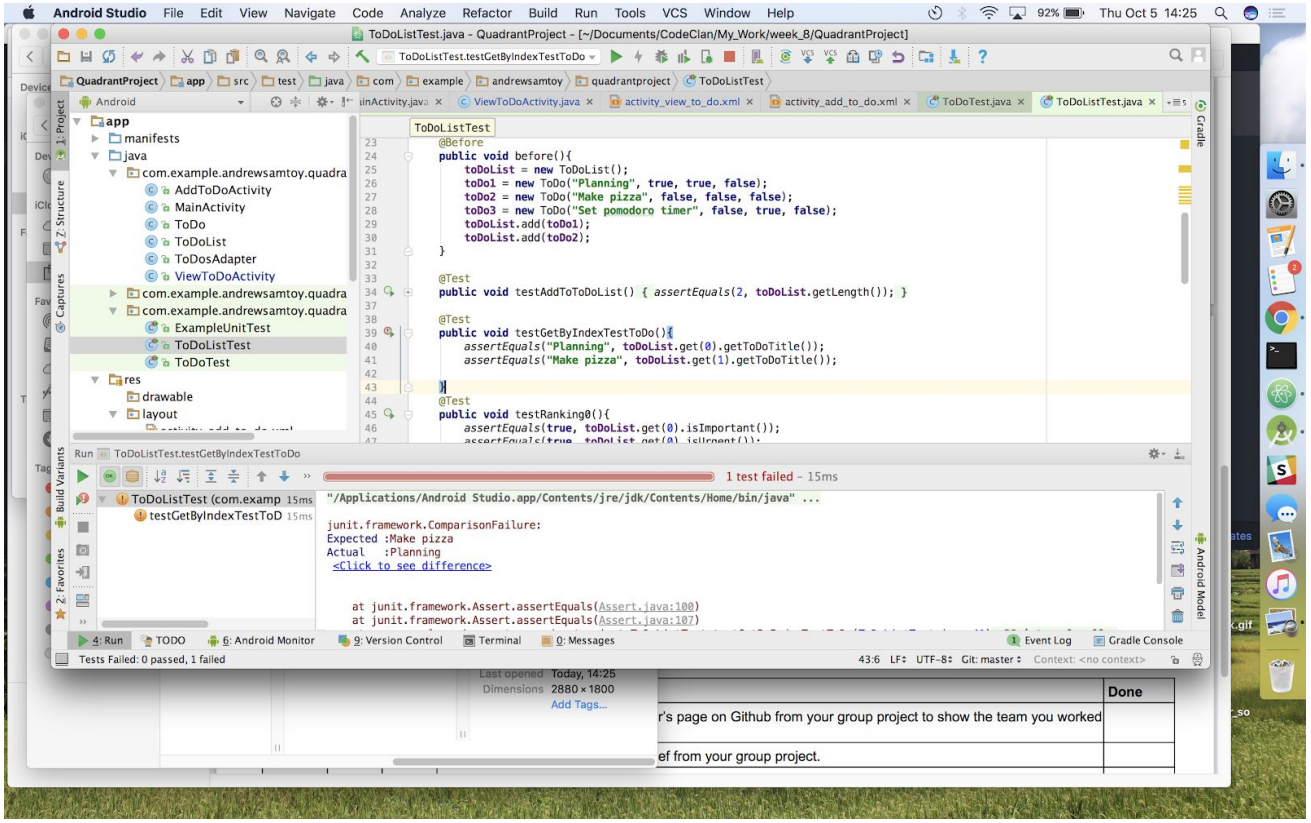


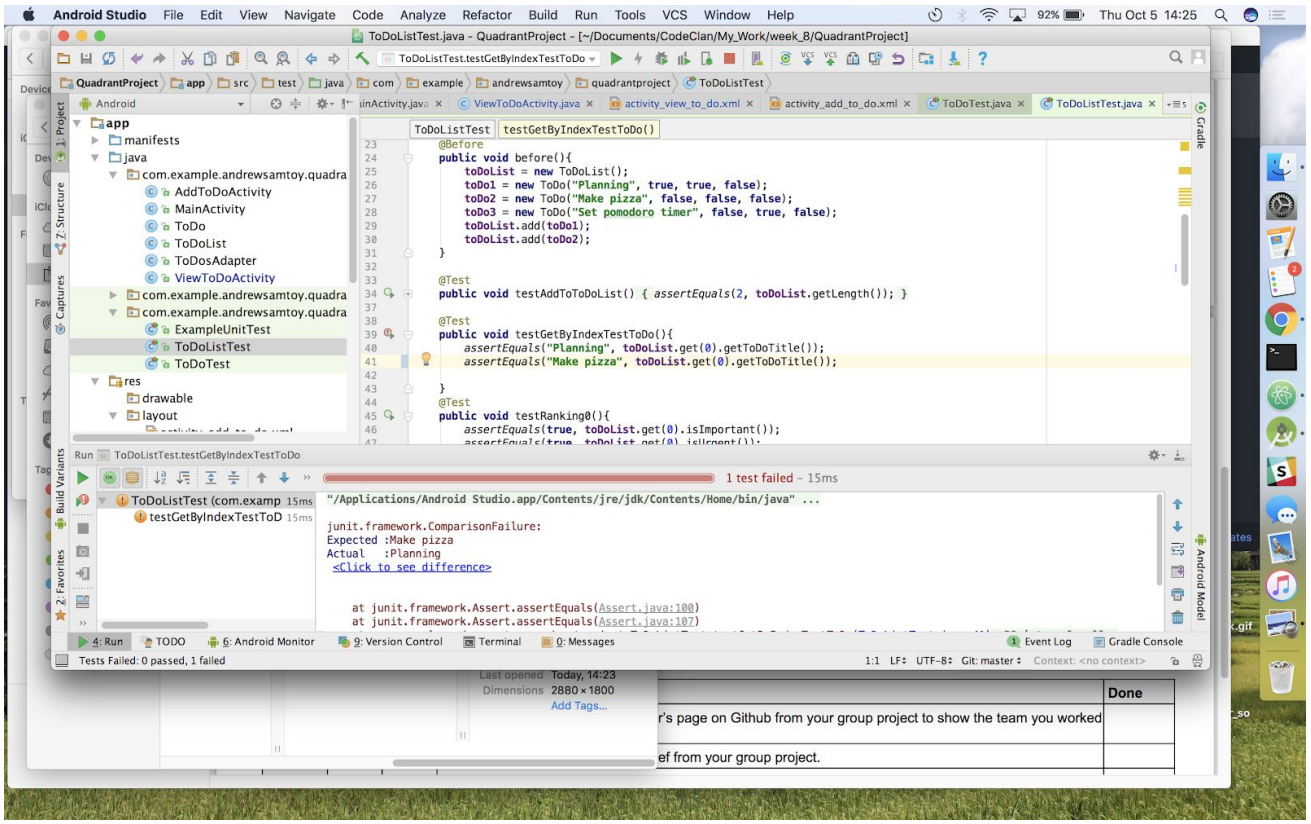


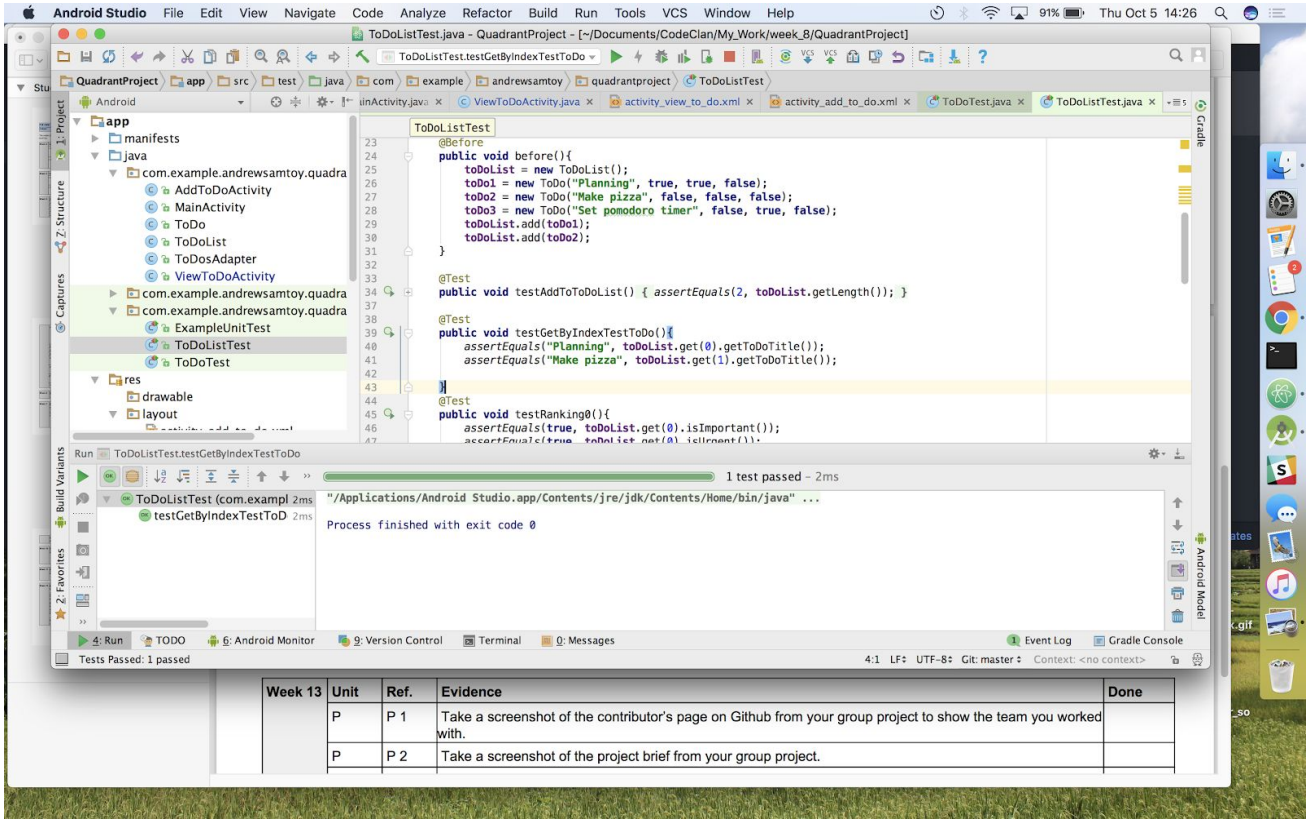


Testing code: your testing example is missing the following: The test code failing to pass. Example of the test code once errors have been corrected. The test code passing.


Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
93% Thu Oct 5 14:23
ToDoListTest.java - QuadrantProject - [~/Documents/CodeClan/My_Work/week_8/QuadrantProject]
QuadrantProject app src test java com example andrewsamtoy quadrantproject ToDoListTest
Android
app
manifests
java
com.example.andrewsamtoy.quadra
AddToDoActivity
MainActivity
ToDo
ToDoList
ToDosAdapter
ViewToDoActivity
com.example.andrewsamtoy.quadra
com.example.andrewsamtoy.quadra
ExampleUnitTest
ToDoListTest
ToDoTest
res
drawable
layout
activity_add_to_do.xml
activity_main.xml
activity_to_do.xml
activity_view_to_do.xml
content_main.xml
menu
mipmap
values
Gradle Scripts
build.gradle (Project: QuadrantProject)
build.gradle (Module: app)
ViewToDoActivity.java
activity_view_to_do.xml
activity_add_to_do.xml
ToDoTest.java
ToDoListTest.java
ToDoListTest
@Before
public void before(){
toDoList = new ToDoList();
toDo1 = new ToDo("Planning", true, true, false);
toDo2 = new ToDo("Make pizza", false, false, false);
toDo3 = new ToDo("Set pomodoro timer", false, true, false);
toDoList.add(toDo1);
toDoList.add(toDo2);
}
@Test
public void testAddToToDoList() { assertEquals(2, toDoList.getLength()); }
@Test
public void testGetByIndexTestToDo(){
assertEquals("Planning", toDoList.get(0).getToDoTitle());
assertEquals("Make pizza", toDoList.get(1).getToDoTitle());
}
@Test
public void testRanking0(){
assertEquals(true, toDoList.get(0).isImportant());
assertEquals(true, toDoList.get(0).isUrgent());
}
@Test
public void testRanking1(){
assertEquals(false, toDoList.get(1).isImportant());
assertEquals(false, toDoList.get(1).isUrgent());
}
@Test
public void testRemoveToDo(){
toDoList.remove(0);
assertEquals(1, toDoList.getLength());
}
TODO 6: Android Monitor 9: Version Control Terminal
Event Log Gradle Console
Gradle sync completed
61:1 LF UTF-8 Git: master Context: <no context>
Done
r's page on Github from your group project to show the team you worked
ef from your group project.


Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
92% Thu Oct 5 14:25
ToDoListTest.java - QuadrantProject - [~/Documents/CodeClan/My_Work/week_8/QuadrantProject]
ToDoListTest.testGetByIndexTestToDo
1 test failed – 15ms
ToDoListTest (com.examp 15ms
testGetByIndexTestToD 15ms
"/Applications/Android Studio.app/Contents/jre/jdk/Contents/Home/bin/java" ...
junit.framework.ComparisonFailure:
Expected :Make pizza
Actual :Planning
<Click to see difference>
at junit.framework.Assert.assertEquals(Assert.java:100)
at junit.framework.Assert.assertEquals(Assert.java:107)
Run ToDoListTest.testGetByIndexTestToDo
4: Run TODO 6: Android Monitor 9: Version Control Terminal 0: Messages
Event Log Gradle Console
Tests Failed: 0 passed, 1 failed
43:6 LF UTF-8 Git: master Context: <no context>
Last opened Today, 14:25
Dimensions 2880 × 1800
Add Tags...
Done
r's page on Github from your group project to show the team you worked
ef from your group project.


Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
92% Thu Oct 5 14:25
ToDoListTest.java - QuadrantProject - [~/Documents/CodeClan/My_Work/week_8/QuadrantProject]
1 test failed – 15ms
"/Applications/Android Studio.app/Contents/jre/jdk/Contents/Home/bin/java" ...
junit.framework.ComparisonFailure:
Expected :Make pizza
Actual :Planning
<Click to see difference>
at junit.framework.Assert.assertEquals(Assert.java:100)
at junit.framework.Assert.assertEquals(Assert.java:107)
Tests Failed: 0 passed, 1 failed
Done
r's page on Github from your group project to show the team you worked
ef from your group project.


Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
91% Thu Oct 5 14:26
ToDoListTest.java - QuadrantProject - [~/Documents/CodeClan/My_Work/week_8/QuadrantProject]
1 test passed – 2ms
"/Applications/Android Studio.app/Contents/jre/jdk/Contents/Home/bin/java" ...
Process finished with exit code 0
Tests Passed: 1 passed
Week 13 | Unit | Ref. | Evidence | Done
P | P 1 | Take a screenshot of the contributor's page on Github from your group project to show the team you worked with.
P | P 2 | Take a screenshot of the project brief from your group project.