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Course Number: ECSE 428
Instructor: Prof. Robert Sabourin
Assignment B

1. Test Name: testNoModeChosen

Description: An error message should appear to the user if they didn't choose Cartesian or polar mode.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 51% Sun 3:46 PM Sam Ahmed

MyActivityTest.java – [app] – MobileVectorCalculator – [~/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project Z: Structure

```
tResult=(TextView) myActivity.findViewById(R.id.result);
tCartesian=(RadioButton) myActivity.findViewById(R.id.cartesian);
tPolar=(RadioButton) myActivity.findViewById(R.id.polar);
tAddition=(RadioButton) myActivity.findViewById(R.id.addition);
tProductScalar=(RadioButton) myActivity.findViewById(R.id.scalarproduct);
tProduct=(RadioButton) myActivity.findViewById(R.id.product);

}

/**
 * Test 1
 * Test to see the result output when no value is inputted for the first vector
 */
@UiThreadTest
public void testNoModeChosen(){

    //Click on the Calculate button
    tCalculate.performClick();

    assertEquals("Error: Please choose either cartesian or polar: ", tError.getText().toString());
}
/**
 * Test 10
 * Test to see the result output when no value is inputted for the second vector
*/
// @UiThreadTest
// public void testNoVector2Value(){
```

Run MyActivityTest

Build Variants

Terminated com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest testNoModeChosen

Gradle Console

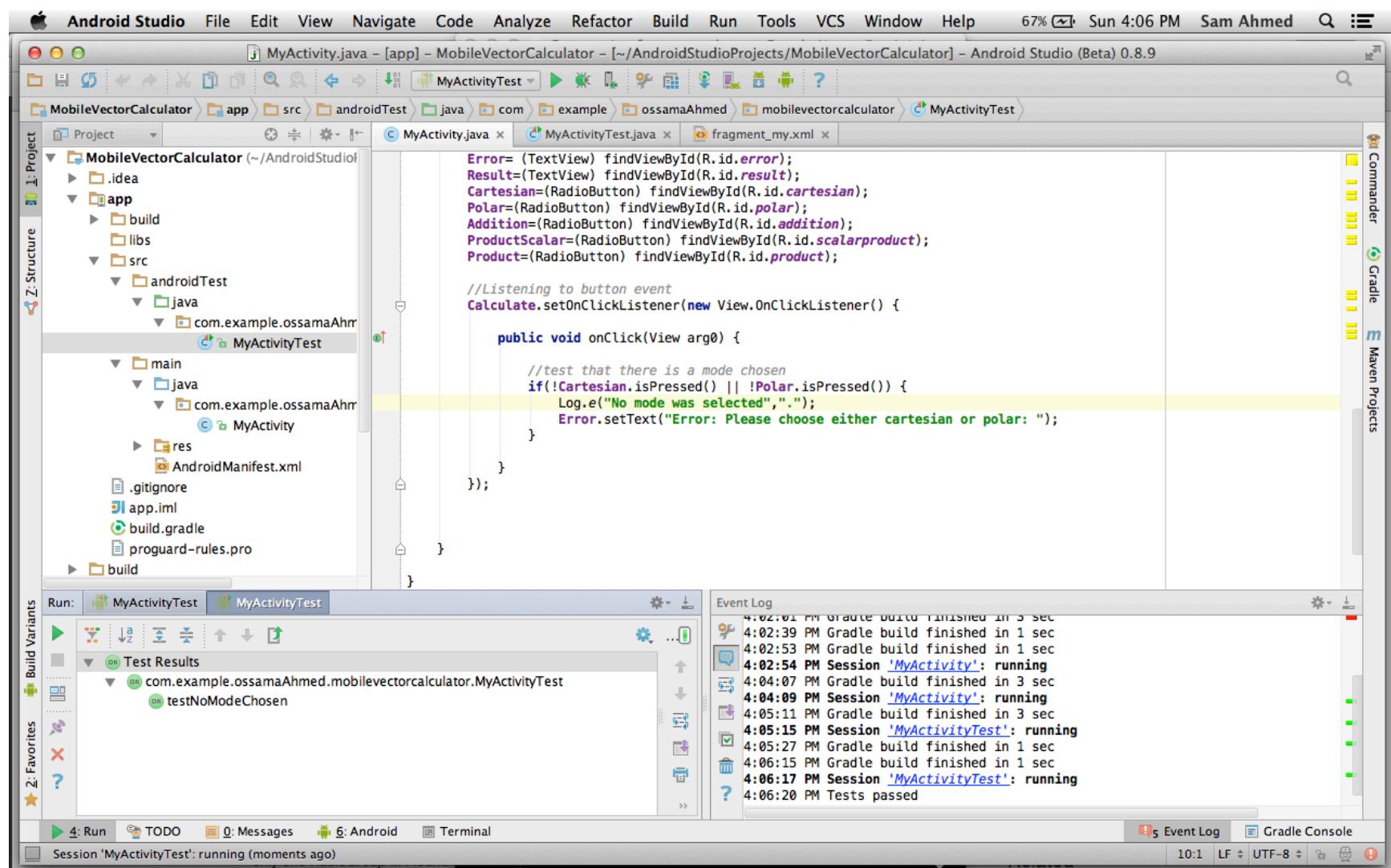
```
:app:generateDebugTestSources UP-TO-DATE
:app:compileDebugTestJava
:app:preDexDebugTest UP-TO-DATE
:app:dexDebugTest
:app:processDebugTestJavaRes UP-TO-DATE
:app:packageDebugTest
:app:assembleDebugTest

BUILD SUCCESSFUL

Total time: 13.71 secs
```

Event Log Gradle Console

Gradle build finished in 14 sec (4 minutes ago)



2. Test Name: testNoOperationChosen

Description: An error message should appear to the user if they didn't choose any operation to perform on the vectors .

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 70% Sun 4:13 PM Sam Ahmed

MyActivityTest.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project 1: Project 2: Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - main
 - java
 - MyActivity
 - res
 - .gitignore
 - app.iml
 - build.gradle
 - proguard-rules.pro
- build

MyActivity.java MyActivityTest.java fragment_my.xml

```
/**  
 * Test 1  
 * Test to see the result output when no value is inputted for the first vector  
 */  
@UiThreadTest  
public void testNoModeChosen(){  
  
    //Click on the Calculate button  
    tCalculate.performClick();  
  
    assertEquals("Error: Please choose either cartesian or polar", tError.getText().toString());  
}  
  
/**  
 * Test 2  
 * Test to see the result output when no value is inputted for the first vector  
 */  
@UiThreadTest  
public void testNoOperationChosen(){  
  
    tCartesian.performClick();  
    tCalculate.performClick();  
    assertEquals("Error: Please choose any operation", tError.getText().toString());  
    tCartesian.setChecked(false);  
    tPolar.performClick();  
    tCalculate.performClick();  
    assertEquals("Error: Please choose any operation", tError.getText().toString());  
}
```

Run: MyActivityTest MyActivityTest

Build Variants

Test Results

- ! com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - ! testNoOperationChosen

Event Log

```
4:02:54 PM Session 'MYACTIVITY': running  
4:04:07 PM Gradle build finished in 3 sec  
4:04:09 PM Session 'MyActivity': running  
4:05:11 PM Gradle build finished in 3 sec  
4:05:15 PM Session 'MyActivityTest': running  
4:05:27 PM Gradle build finished in 1 sec  
4:06:15 PM Gradle build finished in 1 sec  
4:06:17 PM Session 'MyActivityTest': running  
4:06:20 PM Tests passed  
4:12:44 PM Gradle build finished in 9 sec  
4:12:49 PM Tests failed
```

4: Run TODO Messages 6: Android Terminal

Tests failed (moments ago)

Event Log Gradle Console

78:45 LF UTF-8

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 78% Sun 4:28 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
- build
- .gitignore
- app.iml
- build.gradle
- proguard-rules.pro

MyActivityTest

MyActivity.java

```
Addition=(RadioButton) findViewById(R.id.addition);
ProductScalar=(RadioButton) findViewById(R.id.scalarproduct);
Product=(RadioButton) findViewById(R.id.product);

//Listening to button event
Calculate.setOnClickListener(new View.OnClickListener() {

    public void onClick(View arg0) {
        //clear viewtextfields
        Error.setText("");
        Result.setText("");

        //test that there is a mode chosen
        if(!Cartesian.isChecked() && !Polar.isChecked()) {
            Log.e("No mode was selected","");
            Error.setText("Error: Please choose either cartesian or polar");
        }
        else if( !(Addition.isChecked() || ProductScalar.isChecked() || Product.isChecked())){
            Log.e("No operation was selected","");
            Error.setText("Error: Please choose any operation");
        }
    }
});
```

Run: MyActivityTest MyActivityTest

Build Variants

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - testNoOperationChosen

Event Log

```
4:26:07 PM Gradle build finished in 2 sec
4:26:09 PM Session 'MyActivity': running
4:27:20 PM Gradle build finished in 7 sec
4:27:42 PM Gradle build finished in 2 sec
4:27:43 PM Session 'MyActivityTest': running
4:27:44 PM Empty test suite
4:27:44 PM Session 'MyActivityTest': error
4:28:15 PM Gradle build finished in 1 sec
4:28:20 PM Empty test suite
4:28:23 PM Gradle build finished in 1 sec
4:28:28 PM Tests passed
```

4: Run TODO Messages Android Terminal

Tests passed (moments ago)

14 Event Log Gradle Console

65.1/253 LF UTF-8

3. Test Name: testNoVector1Value

Description: An error message should appear to the user if any argument in the first Vector is missing.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 81% Sun 4:37 PM Sam Ahmed

MyActivityTest.java – [app] – MobileVectorCalculator – [/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project 1: Project Z: Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
- main
 - java
 - com.example.ossamaAhmed
- res
- AndroidManifest.xml

.gitignore
app.iml
build.gradle
proguard-rules.pro

Run: MyActivityTest MyActivityTest

Build Variants

Test Results

- ! Test Results
- ! com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - testNoOperationChosen
 - ! testNoVector1Value

Event Log

```
4:27:42 PM Gradle build finished in 2 sec
4:27:43 PM Session 'MyActivityTest': running
4:27:44 PM Empty test suite
4:27:44 PM Session 'MyActivityTest': error
4:28:15 PM Gradle build finished in 1 sec
4:28:20 PM Empty test suite
4:28:23 PM Gradle build finished in 1 sec
4:28:28 PM Tests passed
4:33:03 PM Gradle build finished with 7 error(s) in 3 sec
4:33:23 PM Gradle build finished in 5 sec
4:33:28 PM Tests failed
```

4: Run TODO Messages Android Terminal

14 Event Log Gradle Console

Tests failed (4 minutes ago)

The screenshot shows the Android Studio interface with the following details:

- File Structure:** The left sidebar shows the project structure for "MobileVectorCalculator". It includes the main application module ("app") with its build files, libraries, and source code. The source code is organized into "src" and "androidTest" packages, with "MyActivityTest" being the active file.
- Code Editor:** The central editor pane displays the Java code for "MyActivityTest". The code contains several test methods, such as "testNoModeChosen", "testNoOperationChosen", and "testNoVector1Value". The "testNoVector1Value" method is currently selected and shows annotations like "@UiThreadTest". The code uses assertions to check for errors related to vector input.
- Run Tab:** Below the code editor, the "Run" tab is active, showing two configurations: "MyActivityTest" and "MyActivityTest".
- Build Variants:** A dropdown menu labeled "Build Variants" is visible on the far left.
- Test Results:** The "Test Results" section in the bottom-left corner shows the outcome of the last run. It lists three tests: "testNoModeChosen", "testNoOperationChosen", and "testNoVector1Value", all of which failed.
- Event Log:** The "Event Log" panel on the right shows the command-line output of the build and test process. It includes logs from Gradle, session status, and test execution results.
- Bottom Navigation:** The bottom navigation bar includes tabs for "Run", "TODO", "Messages", "Android", and "Terminal".

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 81% Sun 4:38 PM Sam Ahmed

MyActivityTest.java - [app] – MobileVectorCalculator – [~/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project 1: Project Z: Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
- build
- gitignore
- app.iml
- build.gradle
- proguard-rules.pro

Run: MyActivityTest MyActivityTest

Build Variants

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value

Event Log

- 4:27:44 PM Empty test suite
- 4:27:44 PM Session 'MyActivityTest': error
- 4:28:15 PM Gradle build finished in 1 sec
- 4:28:20 PM Empty test suite
- 4:28:23 PM Gradle build finished in 1 sec
- 4:28:28 PM Tests passed
- 4:33:03 PM Gradle build finished with 7 error(s) in 3 sec
- 4:33:23 PM Gradle build finished in 5 sec
- 4:33:28 PM Tests failed
- 4:38:10 PM Gradle build finished in 9 sec
- 4:38:16 PM Tests passed

4: Run TODO Messages 6: Android Terminal 14 Event Log Gradle Console

Tests passed (moments ago)

The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The left sidebar shows the project structure for "MobileVectorCalculator". It includes the main app module with its build, libs, and src folders, which contains an androidTest folder with a java subfolder containing the test class "MyActivityTest".
- Code Editor:** The main editor window displays the Java code for "MyActivityTest". It includes several test methods: "testNoModeChosen", "testNoOperationChosen", and "testNoVector1Value". The code uses annotations like @UiThreadTest and performs UI interactions on components named tCartesian, tAddition, and tCalculate.
- Run Tab:** The bottom navigation bar has tabs for "Run" (highlighted), "TODO", "Messages", "Android", and "Terminal".
- Test Results:** The "Test Results" section in the bottom-left shows the outcome of the test runs. It lists three tests under "com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest": "testNoModeChosen", "testNoOperationChosen", and "testNoVector1Value", all of which are marked as green (passed).
- Event Log:** The right-hand panel shows the "Event Log" with a list of log entries. It includes timestamps, log levels (e.g., Empty test suite, Session 'MyActivityTest': error, Tests passed), and Gradle build status messages.

4. Test Name: testNoVector2Value

Description: An error message should appear to the user if any argument in the second Vector is missing.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 83% Sun 4:40 PM Sam Ahmed

MyActivityTest.java - [app] – MobileVectorCalculator – [/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project 1: Project Z: Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - build

MyActivityTest

MyActivity.java

MyActivityTest.java

fragment_my.xml

```
/*
 * @UiThreadTest
 */
public void testNoVector1Value(){

    tCartesian.performClick();
    tAddition.performClick();
    //Click on the Calculate button
    tCalculate.performClick();
    assertEquals("Error: Please enter a value for the first vector", tError.getText().toString());
}

/**
 * Test 4
 * Test to see the result output when no value is inputted for the second vector
 */
@UiThreadTest
public void testNoVector2Value(){

    tCartesian.performClick();
    tAddition.performClick();
    tArgument1_1.setText("1");
    tArgument1_2.setText("2");
    //Click on the Calculate button
    tCalculate.performClick();
    assertEquals("Error: Please enter a value for the first vector", tError.getText().toString());
}

/**
 * Test 10
 */
```

Run: MyActivityTest MyActivityTest

Build Variants

Test Results

- ! com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - ! testNoVector2Value

Event Log

- 4:28:20 PM empty test suite
- 4:28:23 PM Gradle build finished in 1 sec
- 4:28:28 PM Tests passed
- 4:33:03 PM Gradle build finished with 7 error(s) in 3 sec
- 4:33:23 PM Gradle build finished in 5 sec
- 4:33:28 PM Tests failed
- 4:38:10 PM Gradle build finished in 9 sec
- 4:38:16 PM Tests passed
- 4:40:40 PM Gradle build finished in 2 sec
- 4:40:45 PM Gradle build finished in 1 sec
- 4:40:50 PM Tests failed

4: Run TODO Messages 6: Android Terminal

14 Event Log Gradle Console

Tests failed (moments ago)

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 83% Sun 4:42 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

```
public void onClick(View arg0) {
```

```
//test that there is a mode chosen
if(!Cartesian.isChecked() && !Polar.isChecked()) {
    Log.e("No mode was selected","");
    Error.setText("Error: Please choose either cartesian or polar");
}
else if( !(Addition.isChecked() || ProductScalar.isChecked() ||Product.isChecked())){
    Log.e("No operation was selected","");
    Error.setText("Error: Please choose any operation");
}
else if(TextUtils.isEmpty(Argument1_1.getText().toString().trim()) || TextUtils.isEmpty(Argument1_2.getText().toString())){
    Log.e("No Arguments for the first vector were entered","");
    Error.setText("Error: Please enter a value for the first vector");
}
else if(TextUtils.isEmpty(Argument2_1.getText().toString().trim()) || TextUtils.isEmpty(Argument2_2.getText().toString())){
    Log.e("No Arguments for the second vector were entered","");
    Error.setText("Error: Please enter a value for the second vector");
}
```

Project Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - build
- .gitignore
- app.iml
- build.gradle
- proguard-rules.pro

Run: MyActivityTest MyActivityTest

Build Variants

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value

Event Log

- 4:28:28 PM Tests passed
- 4:33:03 PM Gradle build finished with 7 error(s) in 3 sec
- 4:33:23 PM Gradle build finished in 5 sec
- 4:33:28 PM Tests failed
- 4:38:10 PM Gradle build finished in 9 sec
- 4:38:16 PM Tests passed
- 4:40:40 PM Gradle build finished in 2 sec
- 4:40:45 PM Gradle build finished in 1 sec
- 4:40:50 PM Tests failed
- 4:42:10 PM Gradle build finished in 4 sec
- 4:42:16 PM Tests passed

4: Run TODO 0: Messages 6: Android Terminal

Tests passed (moments ago) 14 Event Log Gradle Console 77:13/339 LF UTF-8

5. Test Name: testVector3ValueWithUnallowedOperation

Description: An error message should appear to the user if any argument in vector 3 was entered and they chose a vector product operation or scalar product operation.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 85% Sun 4:46 PM Sam Ahmed

MyActivityTest.java - [app] – MobileVectorCalculator – [/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project Z: Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - main
 - java
 - com.example.ossamaAhmed
 - res
 - .gitignore
 - app.iml
 - build.gradle
 - proguard-rules.pro
- build

MyActivityTest.java

```
    }
    /**
     * Test 5
     * Test to see the result output when there is value is inputted for the third vector but product or scalar product
     * operation is chosen
     */
    @UiThreadTest
    public void testVector3ValueWithUnallowedOperation(){

        tCartesian.performClick();
        tProduct.performClick();
        tArgument1_1.setText("1");
        tArgument1_2.setText("2");
        tArgument2_1.setText("1");
        tArgument2_2.setText("2");
        tArgument3_1.setText("1");
        tArgument3_2.setText("2");
        //Click on the Calculate button
        tCalculate.performClick();
        assertEquals("Error: This operation is not supported for three vectors", tError.getText().toString());
    }

    /**
     * Test 10
     * Test to see the result output when no value is inputted for the second vector
     */
    // @UiThreadTest
    public void testNoVector2Value(){
    }
```

Run: MyActivityTest MyActivityTest

Build Variants

Test Results

- ! com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - ! testVector3ValueWithUnallowedOperation

Event Log

- 4:33:23 PM Gradle build finished in 5 sec
- 4:33:28 PM Tests failed
- 4:38:10 PM Gradle build finished in 9 sec
- 4:38:16 PM Tests passed
- 4:40:40 PM Gradle build finished in 2 sec
- 4:40:45 PM Gradle build finished in 1 sec
- 4:40:50 PM Tests failed
- 4:42:10 PM Gradle build finished in 4 sec
- 4:42:16 PM Tests passed
- 4:45:50 PM Gradle build finished in 2 sec
- 4:45:56 PM Tests failed

4: Run TODO Messages Android Terminal 14 Event Log Gradle Console

Tests failed (moments ago)

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 89% Sun 4:57 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [~/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Structure Z: 1: Project

MobileVectorCalculator (~/AndroidStudio)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - main
 - java
 - com.example.ossamaAhmed
 - res
 - build

MyActivity.java

```
        Error.setText("Error: Please choose any operation");

    }
    else if(TextUtils.isEmpty(Argument1_1.getText().toString().trim()) || TextUtils.isEmpty(Argument1_2.getText()
    {
        Log.e("No Arguments for the first vector were entered","");
        Error.setText("Error: Please enter a value for the first vector");
    }
    else if(TextUtils.isEmpty(Argument2_1.getText().toString().trim()) || TextUtils.isEmpty(Argument2_2.getText()
    {
        Log.e("No Arguments for the second vector were entered","");
        Error.setText("Error: Please enter a value for the second vector");
    }
    else if((!TextUtils.isEmpty(Argument3_1.getText().toString().trim())
    || !TextUtils.isEmpty(Argument3_2.getText().toString().trim())
    && (ProductScalar.isChecked()||Product.isChecked()))){
        Log.e("Cannot do that operation on three vectors","");
        Error.setText("Error: This operation is not supported for three vectors");
    }
});
```

Run: MyActivityTest MyActivityTest

Build Variants

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3ValueWithUnallowedOperation

Events Log

- 4:42:16 PM Tests passed
- 4:45:50 PM Gradle build finished in 2 sec
- 4:45:56 PM Tests failed
- 4:50:06 PM Gradle build finished in 3 sec
- 4:50:12 PM Tests passed
- 4:54:31 PM Gradle build finished in 3 sec
- 4:54:39 PM Tests failed
- 4:55:11 PM Gradle build finished in 1 sec
- 4:55:17 PM Tests failed
- 4:57:14 PM Gradle build finished in 3 sec
- 4:57:21 PM Tests passed

14 Event Log Gradle Console

Run TODO Messages Android Terminal

Tests passed (moments ago)

6. Test Name: testVector3PartialValueWithAllowedOperation

Description: An error message should appear to the user if one of the arguments in the third Vector is missing and they chose the addition operation.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 92% Sun 5:05 PM Sam Ahmed

MyActivityTest.java - [app] – MobileVectorCalculator – [~/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project Z: Structure 1: Project 2: Favorites

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - MyActivityTest
 - .gitignore
 - app.iml
 - build.gradle
 - proguard-rules.pro
- build

MyActivityTest.java

```
tArgument3_2.setText("2");
//Click on the Calculate button
tCalculate.performClick();
assertEquals("Error: This operation is not supported for three vectors", tError.getText().toString());
}

/**
 * Test 6
 * Test to see the result output when there is value is inputted for one of the arguments of
 * the third vector only and addition operation is chosen
 */
@UiThreadTest
public void testVector3PartialValueWithAllowedOperation(){

    tCartesian.performClick();
    tAddition.performClick();
    tArgument1_1.setText("1");
    tArgument1_2.setText("2");
    tArgument2_1.setText("1");
    tArgument2_2.setText("2");
    tArgument3_1.setText("1");
    //Click on the Calculate button
    tCalculate.performClick();
    assertEquals("Error: Please enter the two arguments of the third vector", tError.getText().toString());
}

/**
 * Test 10
 * Test to see the result output when no value is inputted for the second vector
*/
```

Run: MyActivity MyActivityTest

Build Variants

Build Results

Test Results

- ! com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - ! testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Event Log

```
4:57:21 PM Tests passed
4:59:25 PM Gradle build finished in 9 sec
4:59:31 PM Tests failed
5:01:15 PM Gradle build finished in 6 sec
5:01:21 PM Tests failed
5:02:18 PM Gradle build finished in 1 sec
5:04:36 PM Gradle build finished in 6 sec
5:04:38 PM Session 'MyActivityTest': running
5:04:44 PM Tests passed
5:05:48 PM Gradle build finished in 7 sec
5:05:55 PM Tests failed
```

4: Run 5: Messages 6: Android 7: Terminal

Tests failed (moments ago)

15 Event Log Gradle Console

1:1 LF UTF-8

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 93% ☰ Sun 5:06 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [~/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Structure Z: 1: Project 2: Structure .idea app build libs src androidTest java com.example.ossamaAhmed MyActivityTest main java com.example.ossamaAhmed MyActivity res AndroidManifest.xml .gitignore app.iml build.gradle proguard-rules.pro build

else if(TextUtils.isEmpty(Argument1_1.getText().toString().trim()) || TextUtils.isEmpty(Argument1_2.getText().toString().trim())){
 Log.e("No Arguments for the first vector were entered",".");
 Error.setText("Error: Please enter a value for the first vector");
}
else if(TextUtils.isEmpty(Argument2_1.getText().toString().trim()) || TextUtils.isEmpty(Argument2_2.getText().toString().trim())){
 Log.e("No Arguments for the second vector were entered",".");
 Error.setText("Error: Please enter a value for the second vector");
}
else if((!TextUtils.isEmpty(Argument3_1.getText().toString().trim())
 || TextUtils.isEmpty(Argument3_2.getText().toString().trim()))
 && (ProductScalar.isChecked()||Product.isChecked())){

 Log.e("Cannot do that operation on three vectors",".");
 Error.setText("Error: This operation is not supported for three vectors");
}

else if((TextUtils.isEmpty(Argument3_1.getText().toString().trim())
 ^ TextUtils.isEmpty(Argument3_2.getText().toString().trim())
 && Addition.isChecked())){

 Log.e("Addition chosen and one argument of the 3 arguments is not chosen",".");
 Error.setText("Error: Please enter the two arguments of the third vector");
}

Event Log 4:59:31 PM Tests Tailed
5:01:15 PM Gradle build finished in 6 sec
5:01:21 PM Tests failed
5:02:18 PM Gradle build finished in 1 sec
5:04:36 PM Gradle build finished in 6 sec
5:04:38 PM Session 'MyActivityTest': running
5:04:44 PM Tests passed
5:05:48 PM Gradle build finished in 7 sec
5:05:55 PM Tests failed
5:06:21 PM Gradle build finished in 4 sec
5:06:29 PM Tests passed

Run: MyActivity MyActivityTest

Build Variants

Test Results com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
testNoModeChosen
testNoOperationChosen
testNoVector1Value
testNoVector2Value
testVector3PartialValueWithAllowedOperation
testVector3ValueWithUnallowedOperation

4: Run 5: TODO 6: Messages 7: Android 8: Terminal

Tests passed (moments ago)

7. Test Name: testInValidTypesInVectors

Description: An error message should appear to the user if they entered any invalid (non numeric) type in any of the arguments of the vectors.

Note: However, this will not happen in the application here as the user enters the vector arguments using a Numeric KeyPad.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 99% Sun 5:56 PM Sam Ahmed

MyActivityTest.java - [app] – MobileVectorCalculator – [~/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project Z: Structure 1: Project

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- build
- libs
- src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - main
 - java
 - com.example.ossamaAhmed
 - res

.gitignore
app.iml
build.gradle

Run: MyActivity MyActivityTest

Build Variants

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Event Log

- 5:09:24 PM Gradle build finished in 2 sec
- 5:14:06 PM Gradle build finished in 2 sec
- 5:14:08 PM Session 'MyActivity': running
- 5:16:08 PM Gradle build finished in 6 sec
- 5:16:10 PM Session 'MyActivity': running
- 5:17:53 PM Gradle build finished in 1 sec
- 5:17:54 PM Session 'MyActivity': running
- 5:51:16 PM Gradle build finished in 13 sec
- 5:51:18 PM Session 'MyActivityTest': running
- 5:51:24 PM Tests failed
- 5:51:54 PM Gradle build finished in 6 sec
- 5:52:01 PM Tests failed
- 5:52:37 PM Gradle build finished in 2 sec

4: Run 5: TODO 6: Messages 7: Android 8: Terminal 19 Event Log Gradle Console

Tests failed (moments ago)

```
//CLICK ON THE CALCULATE BUTTON
tCalculate.performClick();
assertEquals("Error: Please enter the two arguments of the third vector", tError.getText().toString());

/**
 * Test 7
 * Test to see the result output when there is an invalid type in any of the arguments
 */
@UiThreadTest
public void testInValidTypesInVectors(){

    tCartesian.performClick();
    tAddition.performClick();
    tArgument1_1.setText("abc");
    tArgument1_2.setText("2");
    tArgument2_1.setText("1");
    tArgument2_2.setText("2");
    //Click on the Calculate button
    tCalculate.performClick();
    assertEquals("Error: Invalid Type", tError.getText().toString());

    tCartesian.performClick();
    tAddition.performClick();
    tArgument1_1.setText("1");
    tArgument1_2.setText("abc");
    tCalculate.performClick();
    assertEquals("Error: Invalid Type", tError.getText().toString());
}
```

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 99% ☰ Sun 5:57 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [~/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Z: 1: Project MobileVectorCalculator (~/AndroidStudio... .idea app build libs src androidTest java com.example.ossamaAhmed MyActivityTest main java com.example.ossamaAhmed MyActivity res AndroidManifest.xml .gitignore app.iml build.gradle

MyActivity.java

```
Log.e("Cannot do that operation on three vectors","");
Error.setText("Error: This operation is not supported for three vectors");
}
else if(TextUtils.isEmpty(Argument3_1.getText().toString().trim())
^ TextUtils.isEmpty(Argument3_2.getText().toString().trim())
&& Addition.isChecked()){

    Log.e("Addition chosen and one argument of the 3 arguments is not chosen","");
Error.setText("Error: Please enter the two arguments of the third vector");
}
else if(!checkNumericType(Argument1_1.getText().toString().trim())
|| !checkNumericType(Argument1_2.getText().toString().trim())
|| !checkNumericType(Argument2_1.getText().toString().trim())
|| !checkNumericType(Argument2_2.getText().toString().trim())
|| !checkNumericType(Argument3_1.getText().toString().trim())
|| !checkNumericType(Argument3_2.getText().toString().trim()))

{
    Log.e("InValid Type entered","");
Error.setText("Error: Invalid Type");
}
else
{
    //preform the desired calculation
}
```

Run: MyActivity MyActivityTest

Build Variants

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Events Log

- 5:17:53 PM Gradle build finished in 1 sec
- 5:17:54 PM Session 'MyActivity': running
- 5:51:16 PM Gradle build finished in 13 sec
- 5:51:18 PM Session 'MyActivityTest': running
- 5:51:24 PM Tests failed
- 5:51:54 PM Gradle build finished in 6 sec
- 5:52:01 PM Tests failed
- 5:52:37 PM Gradle build finished in 2 sec
- 5:52:44 PM Tests passed
- 5:56:40 PM Gradle build finished in 5 sec
- 5:56:48 PM Tests failed
- 5:57:29 PM Gradle build finished in 3 sec
- 5:57:36 PM Tests passed

19 Event Log Gradle Console

Tests passed (moments ago)

8. Test Name: testAddVectorCartesianTwo

Description: Testing the operation of adding two Cartesian Vectors together. Tests include a normal test and an alternative test including zero and negative points.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 99% ☀ Sun 6:14 PM Sam Ahmed

MyActivityTest.java - [app] - MobileVectorCalculator - ~/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com.example.ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project Z: Structure

MobileVectorCalculator (~/AndroidStudio)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - main
 - java
 - com.example.ossamaAhmed
 - res
- .gitignore
- app.iml
- build.gradle

MyActivity.java

MyActivityTest.java

fragment_my.xml

```
tArgument2_1.setText("1");
tArgument2_2.setText("3");
tArgument3_1.setText("5");
tArgument3_2.setText("dk");
//Click on the Calculate button
tCalculate.performClick();
assertEquals("Error: Invalid Type", tError.getText().toString());}

/**
 * Test 8
 * Test to see the result when addition is performed on 2 cartesian vectors
 */
@UiThreadTest
public void testAddVectorCartesianTwo(){

    tCartesian.performClick();
    tAddition.performClick();
    tArgument1_1.setText("1");
    tArgument1_2.setText("2");
    tArgument2_1.setText("1");
    tArgument2_2.setText("2");
    //Click on the Calculate button
    tCalculate.performClick();
    assertEquals("(2.0,4.0)", tResult.getText().toString());}
```

Run: MyActivity MyActivityTest

Build Variants

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Event Log

- 6:09:42 PM Session 'MyActivity' : running
- 6:11:10 PM Gradle build finished in 3 sec
- 6:11:13 PM Session 'MyActivity' : running
- 6:11:45 PM Gradle build finished in 3 sec
- 6:11:47 PM Session 'MyActivityTest' : running
- 6:11:57 PM Tests failed
- 6:12:05 PM Gradle build finished in 1 sec
- 6:13:09 PM Gradle build finished in 2 sec
- 6:13:11 PM Session 'MyActivityTest' : running
- 6:13:17 PM Tests failed
- 6:13:41 PM Gradle build finished in 1 sec
- 6:14:38 PM Gradle build finished in 3 sec
- 6:14:39 PM Session 'MyActivityTest' : running
- 6:14:45 PM Tests failed

Session 'MyActivityTest': running (moments ago)

4: Run TODO 0: Messages 6: Android Terminal

24 Event Log Gradle Console

119:1 LF UTF-8

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 99% ☀ Sun 6:16 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Z: Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - main
 - java
 - com.example.ossamaAhmed
 - res
- build.gradle
- .gitignore
- app.iml

MyActivity.java

```
|| !checkNumericType(Argument1_2.getText().toString().trim())
|| !checkNumericType(Argument2_1.getText().toString().trim())
|| !checkNumericType(Argument2_2.getText().toString().trim())
|| !checkNumericType(Argument3_1.getText().toString().trim())
|| !checkNumericType(Argument3_2.getText().toString().trim())

{
    Log.e("Invalid Type entered","");
    Error.setText("Error: Invalid Type");
}
else
{
    //perform the desired calculation
    if(TextUtils.isEmpty(Argument3_1.getText().toString().trim())
        && TextUtils.isEmpty(Argument3_2.getText().toString().trim())&& Addition.isChecked()
        && Cartesian.isChecked())
    {
        double tempResult[] = addVectorCartesianTwo(Double.parseDouble(Argument1_1.getText().toString().trim(),
            Double.parseDouble(Argument1_2.getText().toString().trim()),
            Double.parseDouble(Argument2_1.getText().toString().trim()),
            Double.parseDouble(Argument2_2.getText().toString().trim()));

        Result.setText("(" + tempResult[0] + "," + tempResult[1] + ")");
    }
}
```

Run: MyActivity MyActivityTest

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Event Log

- 6:11:45 PM Gradle build finished in 3 sec
- 6:11:47 PM Session 'MyActivityTest': running
- 6:11:57 PM Tests failed
- 6:12:05 PM Gradle build finished in 1 sec
- 6:13:09 PM Gradle build finished in 2 sec
- 6:13:11 PM Session 'MyActivityTest': running
- 6:13:17 PM Tests failed
- 6:13:41 PM Gradle build finished in 1 sec
- 6:14:38 PM Gradle build finished in 3 sec
- 6:14:39 PM Session 'MyActivityTest': running
- 6:14:45 PM Tests failed
- 6:15:44 PM Gradle build finished in 3 sec
- 6:15:52 PM Tests passed

4: Run TODO 0: Messages 6: Android Terminal

24 Event Log Gradle Console

Tests passed (moments ago)

9. Test Name: testAddVectorPolarTwo

Description: Testing the operation of adding two Polar Vectors together. Tests include a normal test and an alternative test including zero and negative points.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 6:39 PM Sam Ahmed

MyActivityTest.java – [app] – MobileVectorCalculator – [/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project Z: Project 1: Project .idea app build libs src androidTest java com.example.ossamaAhmed MyActivityTest main java com.example.ossamaAhmed MyActivity res

```
assertEquals("(0.0,-1.0)", tResult.getText().toString());  
}  
/**  
 * Test 9  
 * Test to see the result when addition is performed on 2 polar vectors  
 */  
@UiThreadTest  
public void testAddVectorPolarTwo(){  
  
    tPolar.performClick();  
    tAddition.performClick();  
    tArgument1_1.setText("12");  
    tArgument1_2.setText("40");  
    tArgument2_1.setText("13");  
    tArgument2_2.setText("80");  
    //Click on the Calculate button  
    tCalculate.performClick();  
    assertEquals("10.242818204209929,0.39898829686862725)", tResult.getText().toString());  
}
```

Run: MyActivity MyActivityTest

Build Variants Favorites

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianTwo
 - testAddVectorPolarTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Event Log

- 0:25:25 PM Gradle build finished in 1 sec
- 6:32:32 PM Gradle build finished in 2 sec
- 6:32:34 PM Session 'MyActivityTest': running
- 6:32:42 PM Tests failed
- 6:33:33 PM Gradle build finished in 2 sec
- 6:33:41 PM Tests failed
- 6:33:52 PM Gradle build finished in 1 sec
- 6:35:25 PM Gradle build finished in 2 sec
- 6:36:26 PM Session 'MyActivityTest': running
- 6:36:36 PM Tests failed
- 6:36:45 PM Gradle build finished in 2 sec
- 6:36:54 PM Tests passed
- 6:37:03 PM Gradle build finished in 1 sec
- 6:38:37 PM Gradle build finished in 2 sec
- 6:38:38 PM Session 'MyActivityTest': running
- 6:38:49 PM Tests passed
- 6:39:48 PM Gradle build finished in 3 sec
- 6:39:56 PM Tests failed

27 Event Log Gradle Console

Tests failed (moments ago)

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 6:40 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Structure Z: 1: Project 2: Structure .idea app build libs src androidTest java com.example.ossamaAhmed MyActivityTest main java com.example.ossamaAhmed MyActivity res

```
Double.parseDouble(Argument1_2.getText().toString().trim()),  
Double.parseDouble(Argument2_1.getText().toString().trim()),  
Double.parseDouble(Argument2_2.getText().toString().trim()));  
  
Result.setText("(" +tempResult[0]+ "," +tempResult[1]+ ")");  
  
else if((TextUtils.isEmpty(Argument3_1.getText().toString().trim())  
&& TextUtils.isEmpty(Argument3_2.getText().toString().trim()))&& Addition.isChecked()  
&& Polar.isChecked())  
  
double tempResult[] = addVectorPolarTwo(Double.parseDouble(Argument1_1.getText().toString().trim()),  
Double.parseDouble(Argument1_2.getText().toString().trim()),  
Double.parseDouble(Argument2_1.getText().toString().trim()),  
Double.parseDouble(Argument2_2.getText().toString().trim()));  
  
Result.setText("(" +tempResult[0]+ "," +tempResult[1]+ ")");
```

Run: MyActivity MyActivityTest

Test Results com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
testAddVectorCartesianTwo
testAddVectorPolarTwo
testInValidTypesInVectors
testNoModeChosen
testNoOperationChosen
testNoVector1Value
testNoVector2Value
testVector3PartialValueWithAllowedOperation
testVector3ValueWithUnallowedOperation

Events Log 0:52:54 PM SESSION 'MyActivityTest': running
6:32:42 PM Tests failed
6:33:33 PM Gradle build finished in 2 sec
6:33:41 PM Tests failed
6:33:52 PM Gradle build finished in 1 sec
6:36:25 PM Gradle build finished in 2 sec
6:36:26 PM Session 'MyActivityTest': running
6:36:36 PM Tests failed
6:36:45 PM Gradle build finished in 2 sec
6:36:54 PM Tests passed
6:37:03 PM Gradle build finished in 1 sec
6:38:37 PM Gradle build finished in 2 sec
6:38:38 PM Session 'MyActivityTest': running
6:38:49 PM Tests passed
6:39:48 PM Gradle build finished in 3 sec
6:39:56 PM Tests failed
6:40:21 PM Gradle build finished in 3 sec
6:40:29 PM Tests passed

Tests passed (moments ago)

10. Test Name: testAddVectorCartesianThree

Description: Testing the operation of adding three Cartesian Vectors together. Tests include a normal test and an alternative test including zero and negative points.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 6:47 PM Sam Ahmed

MyActivityTest.java - [app] – MobileVectorCalculator – [~/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest

Project Z: Structure 1: Project

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
- main
 - java
 - com.example.ossamaAhmed
- res
- AndroidManifest.xml
- .gitignore

MyActivity.java MyActivityTest.java fragment_my.xml

MyActivityTest.java

```
tCalculate.performClick();
assertEquals("(24.39785110866455,-0.06008011780347788)", tResult.getText().toString());

/**
 * Test 10
 * Test to see the result when addition is performed on 3 cartesian vectors
 */
@UiThreadTest
public void testAddVectorCartesianThree(){

    tCartesian.performClick();
    tAddition.performClick();
    tArgument1_1.setText("1");
    tArgument1_2.setText("2");
    tArgument2_1.setText("1");
    tArgument2_2.setText("2");
    tArgument3_1.setText("4");
    tArgument3_2.setText("6");
    //Click on the Calculate button
    tCalculate.performClick();
    assertEquals("(6.0,10.0)", tResult.getText().toString());
}
```

Run: MyActivity MyActivityTest

Build Variants Favorites

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianThree
 - testAddVectorCartesianTwo
 - testAddVectorPolarTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Events Log

- 6:43:56 PM Tests passed
- 6:44:05 PM Tests passed
- 6:44:46 PM Gradle build finished in 2 sec
- 6:44:56 PM Tests failed
- 6:45:14 PM Gradle build finished in 1 sec
- 6:46:00 PM Gradle build finished in 1 sec
- 6:46:01 PM Session 'MyActivityTest': running
- 6:46:09 PM Tests failed
- 6:46:14 PM Gradle build finished in 2 sec
- 6:46:16 PM Session 'MyActivityTest': running
- 6:46:22 PM Tests passed
- 6:46:31 PM Gradle build finished in 1 sec
- 6:46:39 PM Tests passed
- 6:47:19 PM Gradle build finished in 3 sec
- 6:47:28 PM Tests failed

29 Event Log Gradle Console

Run TODO Messages Android Terminal

Tests failed (moments ago)

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 6:48 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Structure Z: 1: Project .idea app build libs src androidTest java com.example.ossamaAhmed MyActivityTest main java com.example.ossamaAhmed MyActivity res AndroidManifest.xml .gitignore

MyActivity.java

```
        Double.parseDouble(Argument1_2.getText().toString().trim()),  
        Double.parseDouble(Argument2_1.getText().toString().trim()),  
        Double.parseDouble(Argument2_2.getText().toString().trim()));  
  
    Result.setText("(" +tempResult[0]+"," +tempResult[1]+")");  
  
    } else if( Addition.isChecked()&& Cartesian.isChecked())  
    {  
        double tempResult[] = addVectorCartesianThree(Double.parseDouble(Argument1_1.getText().toString().trim()),  
        Double.parseDouble(Argument1_2.getText().toString().trim()),  
        Double.parseDouble(Argument2_1.getText().toString().trim()),  
        Double.parseDouble(Argument2_2.getText().toString().trim()),  
        Double.parseDouble(Argument3_1.getText().toString().trim()),  
        Double.parseDouble(Argument3_2.getText().toString().trim()));  
  
        Result.setText("(" +tempResult[0]+"," +tempResult[1]+")");  
    }  
}
```

Run: MyActivity MyActivityTest

Build Variants Favorites

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianThree
 - testAddVectorCartesianTwo
 - testAddVectorPolarTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Events Log

- 6:44:46 PM Gradle build finished in 2 sec
- 6:44:56 PM Tests failed
- 6:45:14 PM Gradle build finished in 1 sec
- 6:46:00 PM Gradle build finished in 1 sec
- 6:46:01 PM Session 'MyActivityTest': running
- 6:46:09 PM Tests failed
- 6:46:16 PM Gradle build finished in 2 sec
- 6:46:16 PM Session 'MyActivityTest': running
- 6:46:22 PM Tests passed
- 6:46:31 PM Gradle build finished in 1 sec
- 6:46:39 PM Tests passed
- 6:47:19 PM Gradle build finished in 3 sec
- 6:47:28 PM Tests failed
- 6:48:05 PM Gradle build finished in 7 sec
- 6:48:14 PM Tests passed

29 Event Log Gradle Console

Tests passed (moments ago)

8. Test Name: testAddVectorPolarThree

Description: Testing the operation of adding three polar Vectors together. Tests include a normal test and an alternative test including zero and negative points.

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 7:01 PM Sam Ahmed

MyActivityTest.java – [app] – MobileVectorCalculator – [~/AndroidStudioProjects/MobileVectorCalculator] – Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest fragment_my.xml

Project Z: Structure 1: Project 2: Favorites

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - main
 - java
 - com.example.ossamaAhmed
 - res
 - AndroidManifest.xml
- .gitignore

Run: MyActivity MyActivityTest

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianThree
 - testAddVectorCartesianTwo
 - testAddVectorPolarThree
 - testAddVectorPolarTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation

Event Log

- 6:59:27 PM Gradle build finished in 4 sec
- 6:59:28 PM Session 'MyActivityTest': running
- 6:59:36 PM Tests failed
- 6:59:51 PM Gradle build finished in 2 sec
- 7:00:01 PM Tests failed
- 7:00:09 PM Gradle build finished in 2 sec
- 7:00:18 PM Tests failed
- 7:00:45 PM Gradle build finished in 2 sec
- 7:00:54 PM Tests failed
- 7:00:58 PM Gradle build finished in 2 sec
- 7:01:07 PM Tests passed
- 7:01:13 PM Gradle build finished in 2 sec
- 7:01:23 PM Tests passed
- 7:01:39 PM Gradle build finished in 3 sec
- 7:01:53 PM Tests failed

4: Run TODO 0: Messages 6: Android Terminal

Tests failed (moments ago)

33 Event Log Gradle Console

1:1 LF UTF-8

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 7:02 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Z: Structure 1: Project

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- .idea
- app
 - build
 - libs
 - src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - res
 - AndroidManifest.xml

MyActivity.java

```
        Double.parseDouble(Argument3_1.getText().toString().trim()),  
        Double.parseDouble(Argument3_2.getText().toString().trim()));  
  
    Result.setText("(" +tempResult[0]+ "," +tempResult[1]+ ")");  
  
    else if( Addition.isChecked()&& Polar.isChecked())  
    {  
        double tempResult[] = addVectorPolarThree(Double.parseDouble(Argument1_1.getText().toString().trim()),  
        Double.parseDouble(Argument1_2.getText().toString().trim()),  
        Double.parseDouble(Argument2_1.getText().toString().trim()),  
        Double.parseDouble(Argument2_2.getText().toString().trim()),  
        Double.parseDouble(Argument3_1.getText().toString().trim()),  
        Double.parseDouble(Argument3_2.getText().toString().trim()));  
        DecimalFormat df = new DecimalFormat("#.##");  
        Result.setText("(" +df.format(tempResult[0])+ "," +df.format(tempResult[1])+ ")");  
    }  
}
```

MyActivityTest.java

fragment_my.xml

Run: MyActivity MyActivityTest

Build Variants Favorites

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianThree
 - testAddVectorCartesianTwo
 - testAddVectorPolarThree
 - testAddVectorPolarTwo
 - testInvalidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Tests passed

4: Run TODO 0: Messages 6: Android Terminal

Tests passed (moments ago)

Event Log

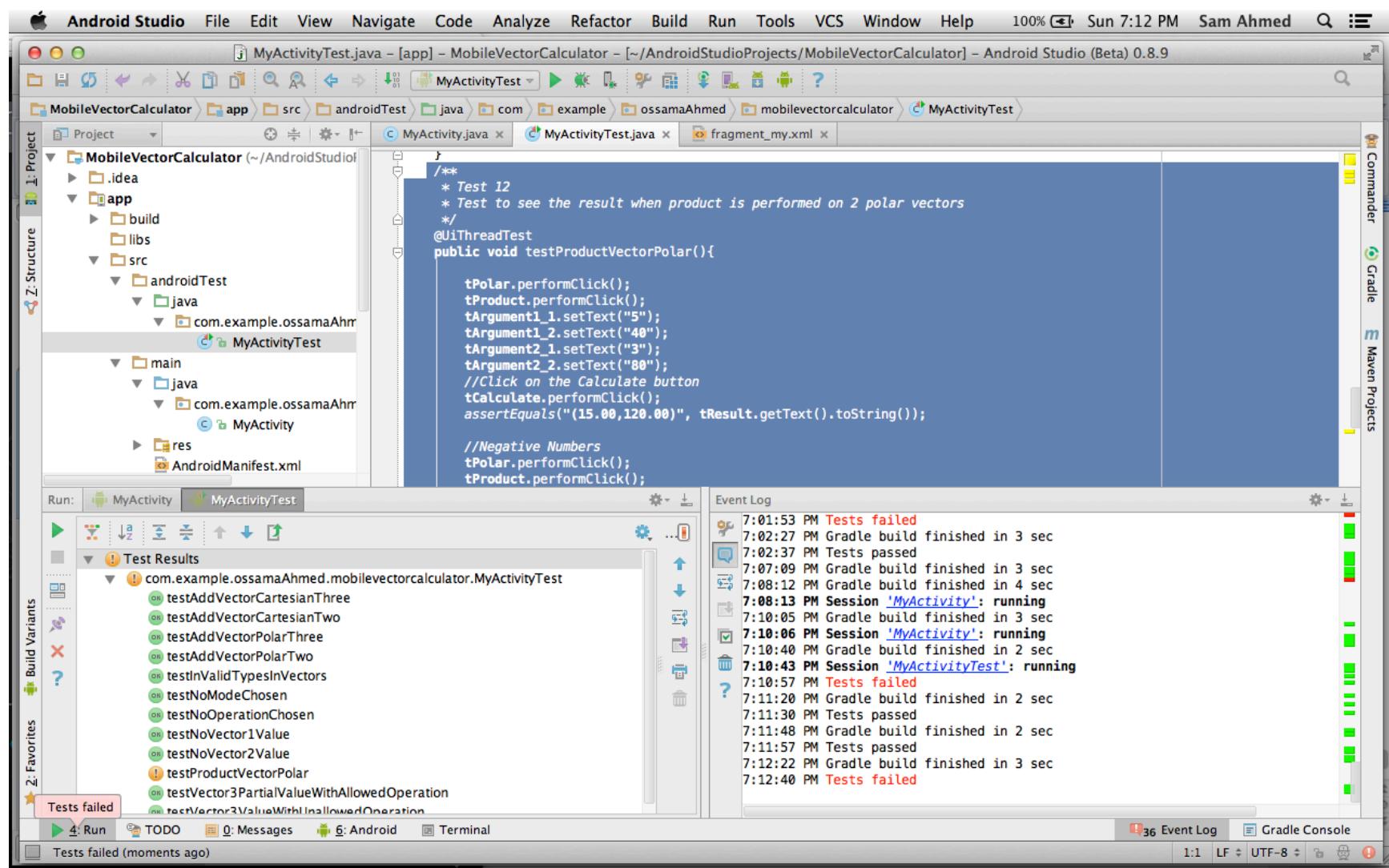
- 6:59:27 PM Gradle build finished in 4 sec
- 6:59:28 PM Session 'MyActivityTest': running
- 6:59:36 PM Tests failed
- 6:59:51 PM Gradle build finished in 2 sec
- 7:00:01 PM Tests failed
- 7:00:09 PM Gradle build finished in 2 sec
- 7:00:18 PM Tests failed
- 7:00:45 PM Gradle build finished in 2 sec
- 7:00:54 PM Tests failed
- 7:00:58 PM Gradle build finished in 2 sec
- 7:01:07 PM Tests passed
- 7:01:13 PM Gradle build finished in 2 sec
- 7:01:23 PM Tests passed
- 7:01:39 PM Gradle build finished in 3 sec
- 7:01:53 PM Tests failed
- 7:02:27 PM Gradle build finished in 3 sec
- 7:02:37 PM Tests passed

33 Event Log Gradle Console

1:1 LF UTF-8

12. Test Name: testProductVectorPolar

Description: Testing the operation of getting the product of two polar Vectors together.
Tests include a normal test and an alternative test including zero and negative points.



Android Studio 100% Sun 7:13 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

Project Structure

MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

- build
- libs
- src
 - androidTest
 - java
 - com.example.ossamaAhmed
 - main
 - java
 - com.example.ossamaAhmed
 - res
- AndroidManifest.xml

MyActivity.java

```
        Double.parseDouble(Argument2_2.getText().toString().trim()),
        Double.parseDouble(Argument3_1.getText().toString().trim()),
        Double.parseDouble(Argument3_2.getText().toString().trim()));
        DecimalFormat df = new DecimalFormat("#.##");
        Result.setText("(" + df.format(tempResult[0]) + "," + df.format(tempResult[1]) + ")");
    } else if( Product.isChecked() && Polar.isChecked())
    {
        double tempResult[] = productPolar(Double.parseDouble(Argument1_1.getText().toString().trim(),
        Double.parseDouble(Argument1_2.getText().toString().trim()),
        Double.parseDouble(Argument2_1.getText().toString().trim()),
        Double.parseDouble(Argument2_2.getText().toString().trim()));
        DecimalFormat df = new DecimalFormat("#.##");
        Result.setText("(" + df.format(tempResult[0]) + "," + df.format(tempResult[1]) + ")");
    }
});
```

Run: MyActivity MyActivityTest

Build Variants

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianThree
 - testAddVectorCartesianTwo
 - testAddVectorPolarThree
 - testAddVectorPolarTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testProductVectorPolar
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Events Log

- 7:02:37 PM Tests passed
- 7:07:09 PM Gradle build finished in 3 sec
- 7:08:12 PM Gradle build finished in 4 sec
- 7:08:13 PM Session 'MyActivity': running
- 7:10:05 PM Gradle build finished in 3 sec
- 7:10:06 PM Session 'MyActivity': running
- 7:10:40 PM Gradle build finished in 2 sec
- 7:10:43 PM Session 'MyActivityTest': running
- 7:10:57 PM Tests failed
- 7:11:20 PM Gradle build finished in 2 sec
- 7:11:30 PM Tests passed
- 7:11:48 PM Gradle build finished in 2 sec
- 7:11:57 PM Tests passed
- 7:12:22 PM Gradle build finished in 3 sec
- 7:12:40 PM Tests failed
- 7:13:26 PM Gradle build finished in 3 sec
- 7:13:36 PM Tests passed

36 Event Log Gradle Console

Tests passed (moments ago)

13. Test Name: testProductVectorCartesian

Description: Testing the operation of getting the product of two cartesian Vectors together. Tests include a normal test and an alternative test including zero and negative points.

Android Studio 0.8.9

MyActivityTest.java - [app] - MobileVectorCalculator - [~/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

Project: MobileVectorCalculator (~/AndroidStudioProjects/MobileVectorCalculator)

MyActivity.java | MyActivityTest.java | fragment_my.xml

```
    assertEquals("(00,00)", tResult.getText().toString());  
}  
/**  
 * Test 13  
 * Test to see the result when product is performed on 2 polar vectors  
 */  
@UiThreadTest  
public void testProductVectorCartesian(){  
  
    tCartesian.performClick();  
    tProduct.performClick();  
    tArgument1_1.setText("5");  
    tArgument1_2.setText("2");  
    tArgument2_1.setText("3");  
    tArgument2_2.setText("9");  
    //Click on the Calculate button  
    tCalculate.performClick();  
    assertEquals("-3.00,51.00", tResult.getText().toString());  
  
    //Negative Numbers  
    tPolar.performClick();  
}
```

Run: MyActivity | MyActivityTest

Test Results: com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest

- testAddVectorCartesianThree
- testAddVectorCartesianTwo
- testAddVectorPolarThree
- testAddVectorPolarTwo
- testInValidTypesInVectors
- testNoModeChosen
- testNoOperationChosen
- testNoVector1Value
- testNoVector2Value
- testProductVectorCartesian
- testProductVectorPolar

Event Log

- 7:10:05 PM Gradle build finished in 3 sec
- 7:10:06 PM Session 'MyActivity': running
- 7:10:40 PM Gradle build finished in 2 sec
- 7:10:43 PM Session 'MyActivityTest': running
- 7:10:57 PM Tests failed
- 7:11:20 PM Gradle build finished in 2 sec
- 7:11:30 PM Tests passed
- 7:11:48 PM Gradle build finished in 2 sec
- 7:11:57 PM Tests passed
- 7:12:22 PM Gradle build finished in 3 sec
- 7:12:40 PM Tests failed
- 7:13:26 PM Gradle build finished in 3 sec
- 7:13:36 PM Tests passed
- 7:16:33 PM Gradle build finished in 3 sec
- 7:20:37 PM Gradle build finished in 3 sec
- 7:20:38 PM Session 'MyActivity': running
- 7:35:15 PM Session 'MyActivity': running

Session 'MyActivityTest': running (moments ago)

Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 7:41 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Z: Structure

```
double tempResult[] = productPolar(Double.parseDouble(Argument1_1.getText().toString().trim()),  
Double.parseDouble(Argument1_2.getText().toString().trim()),  
Double.parseDouble(Argument2_1.getText().toString().trim()),  
Double.parseDouble(Argument2_2.getText().toString().trim()));  
DecimalFormat df = new DecimalFormat("#.00");  
Result.setText("(" + df.format(tempResult[0]) + "," + df.format(tempResult[1]) + ")");  
  
else if( Product.isChecked() && Cartesian.isChecked())  
{  
    double tempResult[] = productCartesian(Double.parseDouble(Argument1_1.getText().toString().trim()),  
Double.parseDouble(Argument1_2.getText().toString().trim()),  
Double.parseDouble(Argument2_1.getText().toString().trim()),  
Double.parseDouble(Argument2_2.getText().toString().trim()));  
    DecimalFormat df = new DecimalFormat("#.00");  
    Result.setText("(" + df.format(tempResult[0]) + "," + df.format(tempResult[1]) + ")");  
}
```

Run: MyActivity MyActivityTest

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianThree
 - testAddVectorCartesianTwo
 - testAddVectorPolarThree
 - testAddVectorPolarTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testProductVectorCartesian
 - testProductVectorPolar
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Event Log

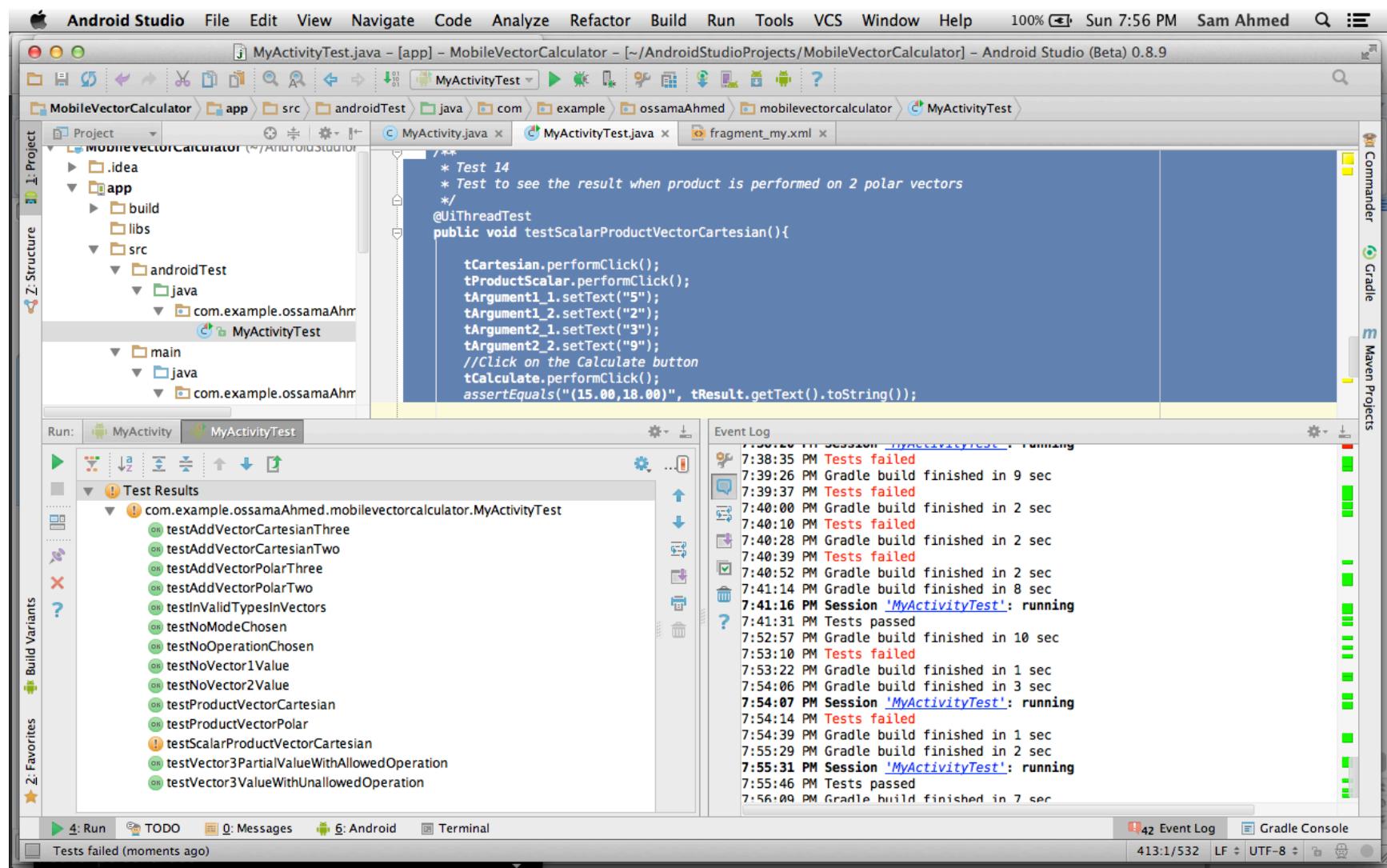
- 7:12:40 PM Tests failed
- 7:13:26 PM Gradle build finished in 3 sec
- 7:13:36 PM Tests passed
- 7:16:33 PM Gradle build finished in 3 sec
- 7:20:37 PM Gradle build finished in 3 sec
- 7:20:38 PM Session 'MyActivity': running
- 7:35:13 PM Gradle build finished in 12 sec
- 7:35:15 PM Session 'MyActivity': running
- 7:38:17 PM Gradle build finished in 5 sec
- 7:38:20 PM Session 'MyActivityTest': running
- 7:38:35 PM Tests failed
- 7:39:26 PM Gradle build finished in 9 sec
- 7:39:37 PM Tests failed
- 7:40:00 PM Gradle build finished in 2 sec
- 7:40:10 PM Tests failed
- 7:40:28 PM Gradle build finished in 2 sec
- 7:40:39 PM Tests failed
- 7:40:52 PM Gradle build finished in 2 sec
- 7:41:14 PM Gradle build finished in 8 sec
- 7:41:16 PM Session 'MyActivityTest': running
- 7:41:31 PM Tests passed

4: Run TODO 0: Messages 6: Android Terminal 40 Event Log Gradle Console

Session 'MyActivityTest': running (moments ago)

14. Test Name: testScalarProductVectorCartesian

Description: Testing the operation of getting the scalar product of two cartesian Vectors together. Tests include a normal test and an alternative test including zero and negative points.



Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 7:58 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src androidTest java com example ossamaAhmed mobilevectorcalculator MyActivityTest

Project 1: Project

MobileVectorCalculator (.idea app build libs src androidTest java com.example.ossamaAhmed mobilevectorcalculator MyActivityTest)

MyActivity.java (selected)

```
        Double.parseDouble(Argument2_2.getText().toString().trim()));
        DecimalFormat df = new DecimalFormat("#.00");
        Result.setText(""+df.format(tempResult[0])+"."+df.format(tempResult[1]));
    }
} else if( ProductScalar.isChecked()&& Cartesian.isChecked())
{
    double tempResult[] = scalarProductCartesian(Double.parseDouble(Argument1_1.getText().toString().trim(),
        Double.parseDouble(Argument1_2.getText().toString().trim()),
        Double.parseDouble(Argument2_1.getText().toString().trim()),
        Double.parseDouble(Argument2_2.getText().toString().trim()));
    DecimalFormat df = new DecimalFormat("#.00");
    Result.setText(""+df.format(tempResult[0])+"."+df.format(tempResult[1]));
}
```

Run: MyActivity MyActivityTest

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianThree
 - testAddVectorCartesianTwo
 - testAddVectorPolarThree
 - testAddVectorPolarTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testProductVectorCartesian
 - testProductVectorPolar
 - testScalarProductVectorCartesian
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Event Log

- 7:40:10 PM Tests failed
- 7:40:28 PM Gradle build finished in 2 sec
- 7:40:39 PM Tests failed
- 7:40:52 PM Gradle build finished in 2 sec
- 7:41:14 PM Gradle build finished in 8 sec
- 7:41:16 PM Session 'MyActivityTest': running
- 7:41:31 PM Tests passed
- 7:52:57 PM Gradle build finished in 10 sec
- 7:53:10 PM Tests failed
- 7:53:22 PM Gradle build finished in 1 sec
- 7:54:06 PM Gradle build finished in 3 sec
- 7:54:07 PM Session 'MyActivityTest': running
- 7:54:14 PM Tests failed
- 7:54:39 PM Gradle build finished in 1 sec
- 7:55:29 PM Gradle build finished in 2 sec
- 7:55:31 PM Session 'MyActivityTest': running
- 7:55:46 PM Tests passed
- 7:56:09 PM Gradle build finished in 7 sec
- 7:56:20 PM Tests failed
- 7:57:22 PM Gradle build finished in 6 sec
- 7:57:33 PM Tests passed

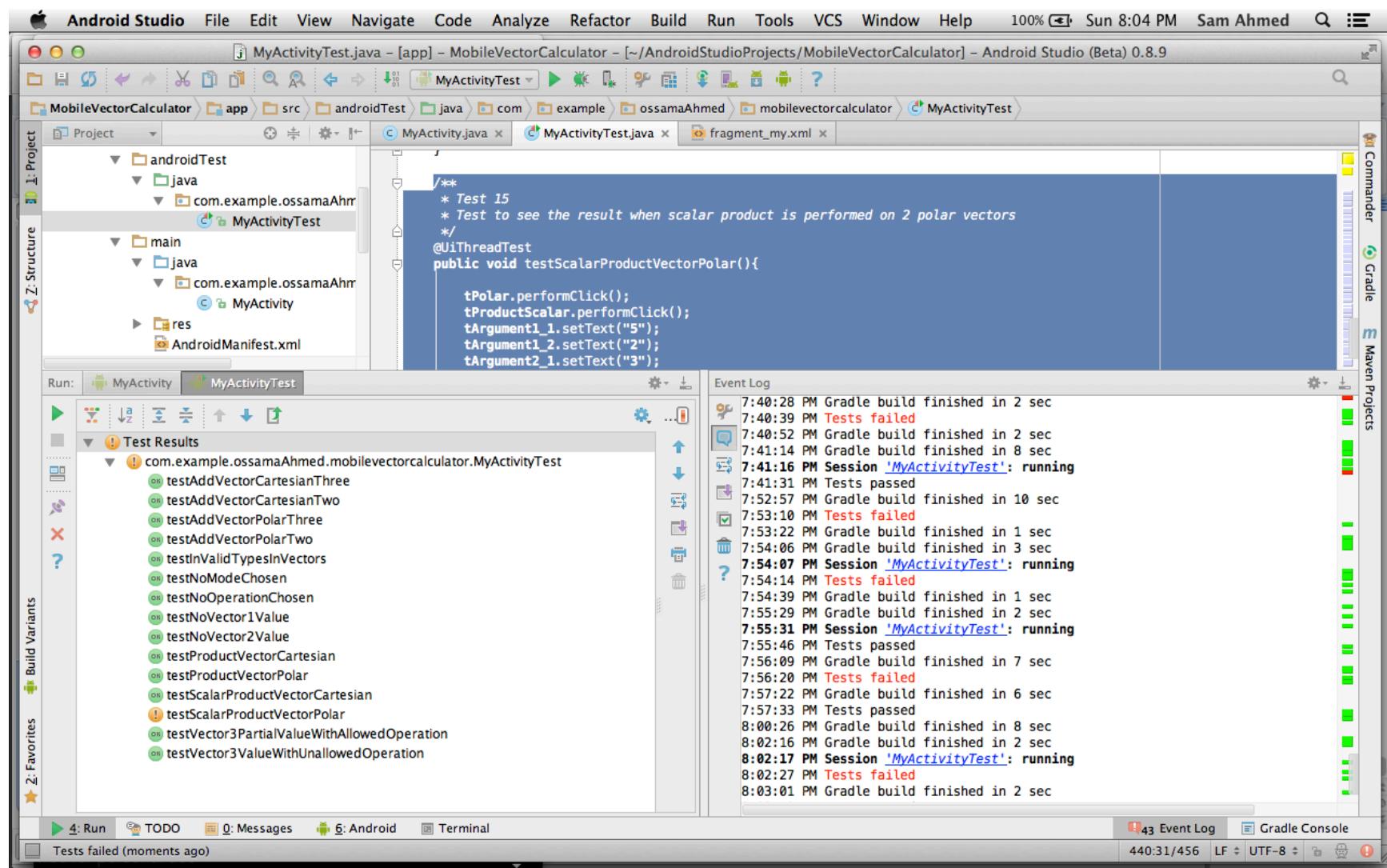
Build Variants Favorites

4: Run TODO 0: Messages 6: Android Terminal

Tests passed (a minute ago) 42 Event Log Gradle Console 1:1 LF UTF-8

15. Test Name: testScalarProductVectorPolar

Description: Testing the operation of getting the scalar product of two polar Vectors together. Tests include a normal test and an alternative test including zero and negative points.



Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 100% Sun 8:05 PM Sam Ahmed

MyActivity.java - [app] - MobileVectorCalculator - [/AndroidStudioProjects/MobileVectorCalculator] - Android Studio (Beta) 0.8.9

MobileVectorCalculator app src main java com example ossamaAhmed mobilevectorcalculator MyActivity

Project Z: 1: Project

MyActivity.java x MyActivityTest.java fragment_my.xml

```
    DecimalFormat df = new DecimalFormat("#.00");
    Result.setText(""+df.format(tempResult[0])+"."+df.format(tempResult[1]));
}
else if( ProductScalar.isChecked()&& Polar.isChecked())
{
    double tempResult[] = scalarProductPolar(Double.parseDouble(Argument1_1.getText().toString().trim()),
    Double.parseDouble(Argument2_1.getText().toString().trim()),
    Double.parseDouble(Argument2_1.getText().toString().trim()),
    Double.parseDouble(Argument2_2.getText().toString().trim()));
    DecimalFormat df = new DecimalFormat("#.00");
    Result.setText(""+df.format(tempResult[0])+"."+df.format(tempResult[1]));
}
```

Run: MyActivity MyActivityTest

Test Results

- com.example.ossamaAhmed.mobilevectorcalculator.MyActivityTest
 - testAddVectorCartesianThree
 - testAddVectorCartesianTwo
 - testAddVectorPolarThree
 - testAddVectorPolarTwo
 - testInValidTypesInVectors
 - testNoModeChosen
 - testNoOperationChosen
 - testNoVector1Value
 - testNoVector2Value
 - testProductVectorCartesian
 - testProductVectorPolar
 - testScalarProductVectorCartesian
 - testScalarProductVectorPolar
 - testVector3PartialValueWithAllowedOperation
 - testVector3ValueWithUnallowedOperation

Build Variants

Favorites

Tests passed

4: Run 5: TODO 0: Messages 6: Android Terminal

43 Event Log Gradle Console

Tests passed (moments ago)

Event Log

- 7:52:57 PM Gradle build finished in 10 sec
- 7:53:10 PM Tests failed
- 7:53:22 PM Gradle build finished in 1 sec
- 7:54:06 PM Gradle build finished in 3 sec
- 7:54:07 PM Session 'MyActivityTest': running
- 7:54:14 PM Tests failed
- 7:54:39 PM Gradle build finished in 1 sec
- 7:55:29 PM Gradle build finished in 2 sec
- 7:55:31 PM Session 'MyActivityTest': running
- 7:55:46 PM Tests passed
- 7:56:09 PM Gradle build finished in 7 sec
- 7:56:20 PM Tests failed
- 7:57:22 PM Gradle build finished in 6 sec
- 7:57:33 PM Tests passed
- 8:00:26 PM Gradle build finished in 8 sec
- 8:02:16 PM Gradle build finished in 2 sec
- 8:02:17 PM Session 'MyActivityTest': running
- 8:02:27 PM Tests failed
- 8:03:01 PM Gradle build finished in 2 sec
- 8:03:12 PM Tests passed
- 8:04:07 PM Gradle build finished in 3 sec
- 8:04:18 PM Tests failed
- 8:05:23 PM Gradle build finished in 3 sec
- 8:05:34 PM Tests passed