# ***Lab1***

**Question 1**

Run the SimpleCalc app without the debugger. Leave one or both of the EditText elements empty, and try any calculation. Why did the error occur?

* java.lang.NumberFormatException: empty String
* W/OpenGLRenderer: Failed to choose config with EGL\_SWAP\_BEHAVIOR\_PRESERVED
* The app may be doing too much work on its main thread.
* The code cache capacity was increased to 128KB.

**Question 2**

Which function do you perform in the Debug pane in order to execute the current line where the breakpoint is, and then stop at the next line in the code? Choose one:

* **Step Into**
* **Step Over**
* **Step Out**
* **Resume**

**Question 3**

Which function do you perform in the Debug pane in order to jump to the execution of a method call from the current line where the breakpoint is? Choose one:

* **Step Into**
* **Step Over**
* **Step Out**
* **Resume**

**Question 1**

Which statement best describes a local unit test? Choose one:

* Tests that run on an Android-powered device or emulator and have access to the Android framework.
* Tests that enable you to write automated UI test methods.
* Tests that are compiled and run entirely on your local machine with the Java Virtual Machine (JVM).

**Question 2**

Source sets are collections of related code. In which source set are you likely to find unit tests? Choose one:

* app/res
* com.example.android.SimpleCalcTest
* com.example.android.SimpleCalcTest (test)
* com.example.android.SimpleCalcTest (androidTest)

**Question 3**

Which annotation is used to mark a method as an actual test? Choose one:

* @RunWith(JUnit4.class)
* @SmallTest
* @Before
* @Test

**Question 1**

Which steps do you perform to test a View interaction, and in what order? Choose one:

* Match a View, assert and verify the result, and perform an action.
* Match a View, perform an action, and assert and verify the result.
* Perform an action, match a view, and assert and verify the result.
* Perform an action, and assert and verify the result.

**Question 2**

Which of the following annotations enables an instrumented JUnit 4 test class? Choose one:

* @RunWith
* @Rule
* @Test
* @RunWith and @Test

**Question 3**

Which method would you use to find a child View in an AdapterView? Choose one:

* onData() to load the adapter and enable the child View to appear on the screen.
* onView() to load the View from the current View hierarchy.
* onView().check() to check the current View.
* onView().perform() to perform a click on the current View.

Question 1

How do you add images to an Android Studio project? Choose one:

* Drag each image to the layout editor.
* Copy the image files into your project's drawable folder.
* Drag an ImageButton to the layout editor.
* Choose **New > Image Asset** and then choose the image file.

Question 2

How do you make an ImageView clickable like a simple Button? Choose one:

* Add the android:contentDescription attribute to the ImageView in the layout and use it to call the click handler in the Activity.
* Add the android:src attribute to the ImageView in the layout and use it to call the click handler in the Activity.
* Add the android:onClick attribute to the ImageView in the layout and use it to call the click handler in the Activity.
* Add the android:id attribute to the ImageView in the layout and use it to call the click handler in the Activity.

Question 3

Which rule applies to a click handler called from the attribute in the layout? Choose one:

* The click handler method must include the event listener View.OnClickListener, which is an interface in the View class .
* The click handler method must be public, return void, and define a View as its only parameter.
* The click handler must customize the View.OnClickListener class and override its click handler to perform some action.
* The click handler method must be private and return a View.

Question 1

What's the most important difference between checkboxes and a RadioGroup of radio buttons? Choose one:

* The only difference is in how they appear: checkboxes show a checkmark when selected, while circular "radio" buttons appear filled when selected.
* CheckBox elements in the layout can use the android:onClick attribute to call a handler when selected.
* The major difference is that checkboxes enable multiple selections, while a RadioGroup allows only one selection.

Question 2

Which layout group lets you align a set of CheckBox elements vertically? Choose one:

* RelativeLayout
* LinearLayout
* ScrollView

Question 3

Which of the following is the method of the [Checkable](https://developer.android.com/reference/android/widget/Checkable.html) interface to check the state of a radio button (that is, whether it has been selected or not)?

* getId()
* isChecked()
* onRadioButtonClicked()
* onClick()