HW1: Switching Activities

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Overview:

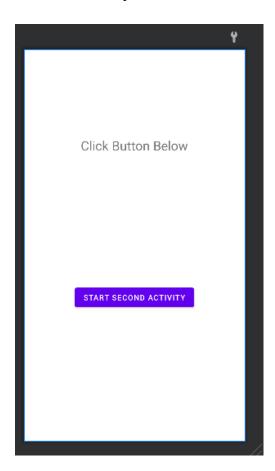
This project is an android application that has two activites. Both activities will be blank except for the ability to switch between then at the click of a button found on each activity. The Main activity will also contain a count of how many times the application has switched back and forth Since it was opened.

Method:

Activity 1:

Created a new project called HW1. This will contain a blank activity.

First the Main activity is created. The Main activity has a Button and a Text View.



```
<TextView
android:id="@+id/textViewSwitchingCount"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Click Button Below"
android:text="Click Button Below"
android:textSize="24sp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintIng_toToIngbot="parent"
app:layout_constraintVertical_bias="0.234" />

<pre
```

The Button and text view are wired into the Main activity.

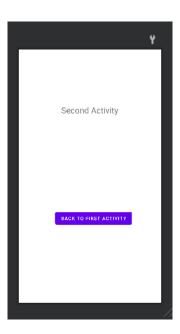
```
btnStartNewActivity = findViewById(R.id.buttonStartNewActivity);
tvSwitchingCount = findViewById(R.id.textViewSwitchingCount);
count = 0;
```

Note that a Int variable *count* has been initialized with zero. This will represent the number of times the activity has been switched back and forth. Next the *btnStartNewActivity* is wired to a trigger opening the next activity with an intent.

When the activity switches, it will trigger the current activity to run *onPause()*. This method is Overriden, allowing the *textViewSwitchingCount* to update with an incremented count value.

Activity2:

Much like Activity1, Activity2 will consist of a Button and a TextView



```
android:id="@+id/textViewSecondActivity"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Second Activity"
android:textsize="24sp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.498"
app:layout_constraintVertical_bias="0.227" />

<Button
android:id="@+id/buttonCloseActivity"
android:layout_width="wrap_content"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="272dp"
android:text="Back to First activity"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textViewSecondActivity"
app:layout_constraintVertical_bias="0.0" />
```

Activity2 will only have the btn wired to close this activity again revealing activity one again.

```
btnCloseActivity = findViewById(R.id.buttonCloseActivity);

btnCloseActivity.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        //TODO close activity
        finish();
    }
});
```

Result:

The application works as expected. Allowing the user to switch between activites and keeping count of how many times it has switched to activity 2.

