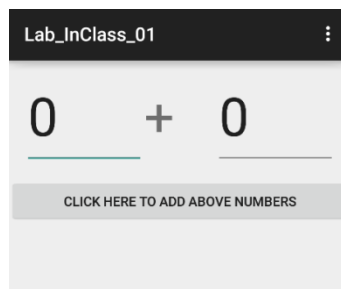**Social Calculator – In class lab**

We will make a calculator that shares its results.
See project Lab_InClass_01_skeleton.zip for skeleton. Build on this
following the steps below. See project Lab_InClass_01_solution.zip for
solution to lab.

The java code is also part of this project. It is commented out so you
can try it yourself.

1. Make an activity.

2. (optional) Verify inputs. Must have a number, if not set focus on
   empty field and notify user via short message. Use a Toast.

```java
String str2 = et2.getText().toString();

//validate inputs
//make it so the box without a number gets the correct focus
//might want to check range of ints too
if (str1.isEmpty() || str2.isEmpty()){
    Toast.makeText(this,"Please enter a number", Toast.LENGTH_SHORT).show();
    et1.requestFocus();
    return;
}
```
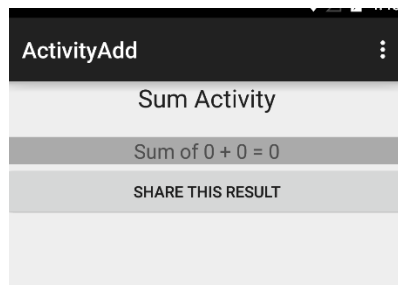
3. When user presses the button create an explicit intent to start
   activityadd.

4. Put the numbers in the intent and start activityadd

```
//get inputs
numb1 = Integer.parseInt(str1);
numb2 = Integer.parseInt(str2);

Intent myIntent = new Intent(this, ActivityAdd.class);
myIntent.putExtra("Number1", numb1);
myIntent.putExtra("Number2", numb2);
startActivity(myIntent);
```
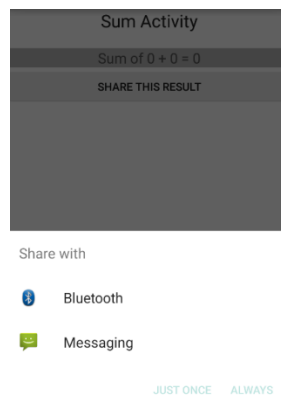
5. Create activityadd with the following UI

6. Display the result of the addition (dark gray line above)
7. When user presses the button create an implicit intent to share info and start it.


```
public void doShare(View view) {
    Intent intent = new Intent(Intent.ACTION_SEND);
    intent.setType("text/plain");
    intent.putExtra(Intent.EXTRA_EMAIL, "kperkins@cnu.edu");
    intent.putExtra(Intent.EXTRA_SUBJECT, "Astonishing News!");
    intent.putExtra(Intent.EXTRA_TEXT, "Did you know that the " + myTv.getText().toString() + " ????");
    startActivity(intent);
```

8. If you have enough time, in the mainactivity, save the numbers the user enters in sharedpreferences and load them again when app restarts.

```java
public void getPref() {
    //SHAREDPREFERENCES - PERMANENT STORAGE
    SharedPreferences settings = getSharedPreferences(PREF_FILE_NAME,MODE_PRIVATE);
    numb1 = settings.getInt("Number1", 0);
    numb2 = settings.getInt("Number2", 0);
}
public void savePref() {
    //SHAREDPREFERENCES - PERMANENT STORAGE
    SharedPreferences settings = getSharedPreferences(PREF_FILE_NAME,MODE_PRIVATE);

    // can only make changes with editor
    SharedPreferences.Editor editor = settings.edit();

    // slap something in it, strings, bools nts, check the docs
    editor.putInt("Number1", numb1);
    editor.putInt("Number2", numb2);

    // Commit the edits! You dont call this it aint saved!
    editor.commit();
}
```