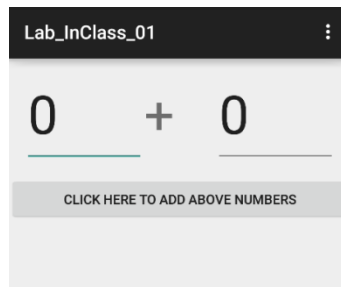**Social Calculator – In class lab**

We will make a calculator that shares its results. Solution posted on course website.

1. Create a new project
2. Modify activity to have the following UI

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

```
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;
}
```
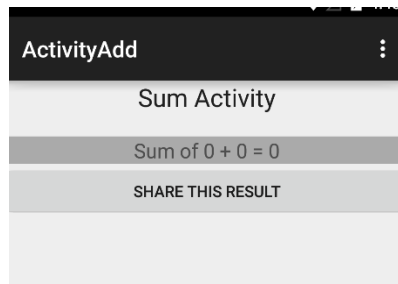
4. When user presses the button create an explicit intent to start activityadd.

5. 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);
```
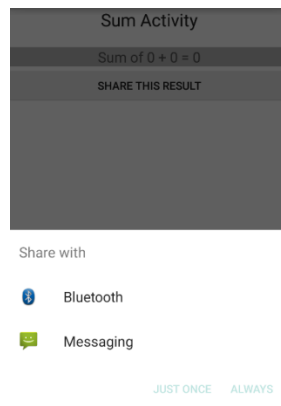
6. Create activityadd with the following UI

ActivityAdd	⋮
Sum Activity	
Sum of 0 + 0 = 0	
SHARE THIS RESULT	

7. Display the result of the addition (dark gray line above)
8. When user presses the 'Share This Result' button create an implicit intent to share info via email and start it.

```
Sum Activity
Sum of 0 + 0 = 0
SHARE THIS RESULT



Share with

  🅑   Bluetooth

  💬   Messaging

                    JUST ONCE   ALWAYS
```

```
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);
```

9. 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();
}
```