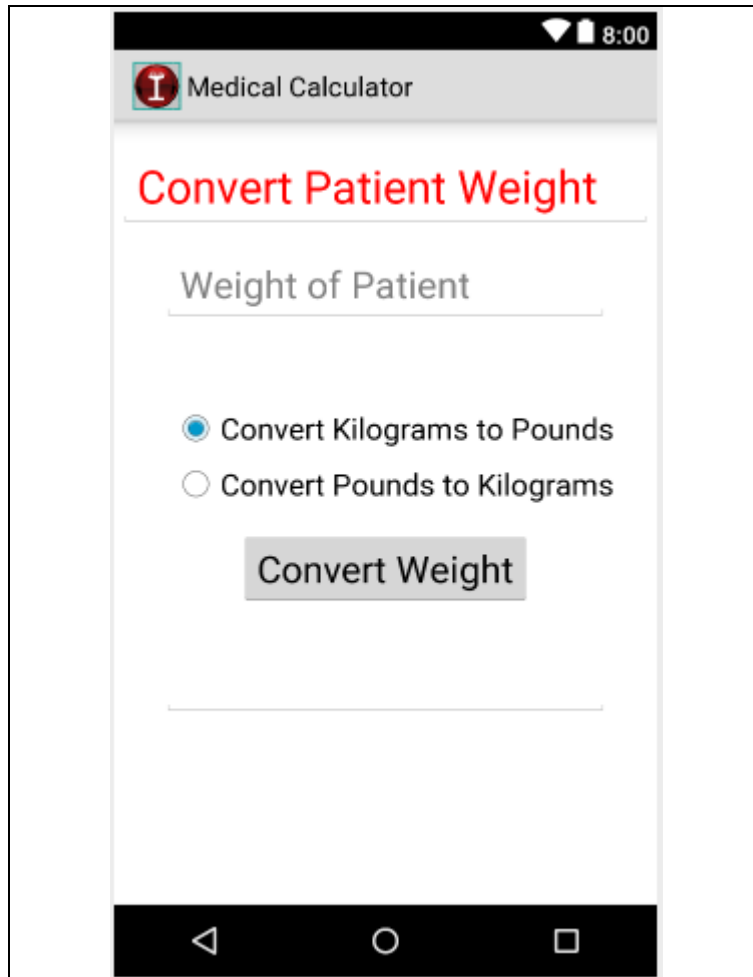
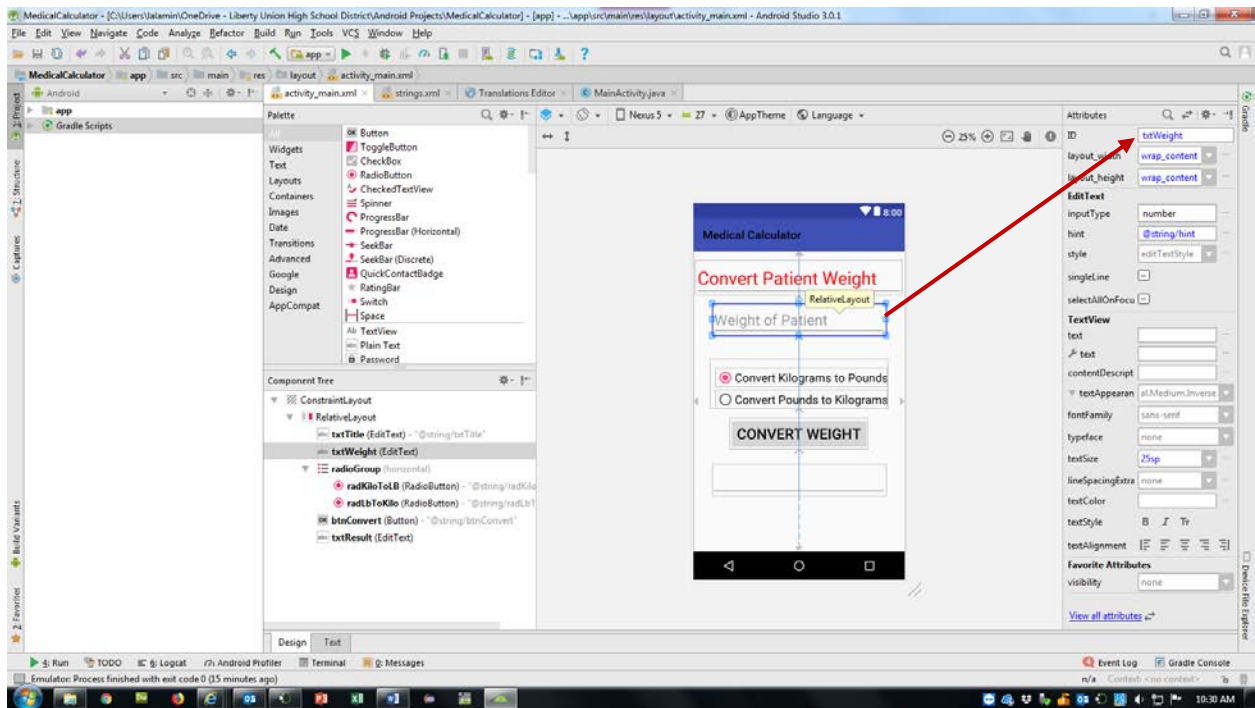
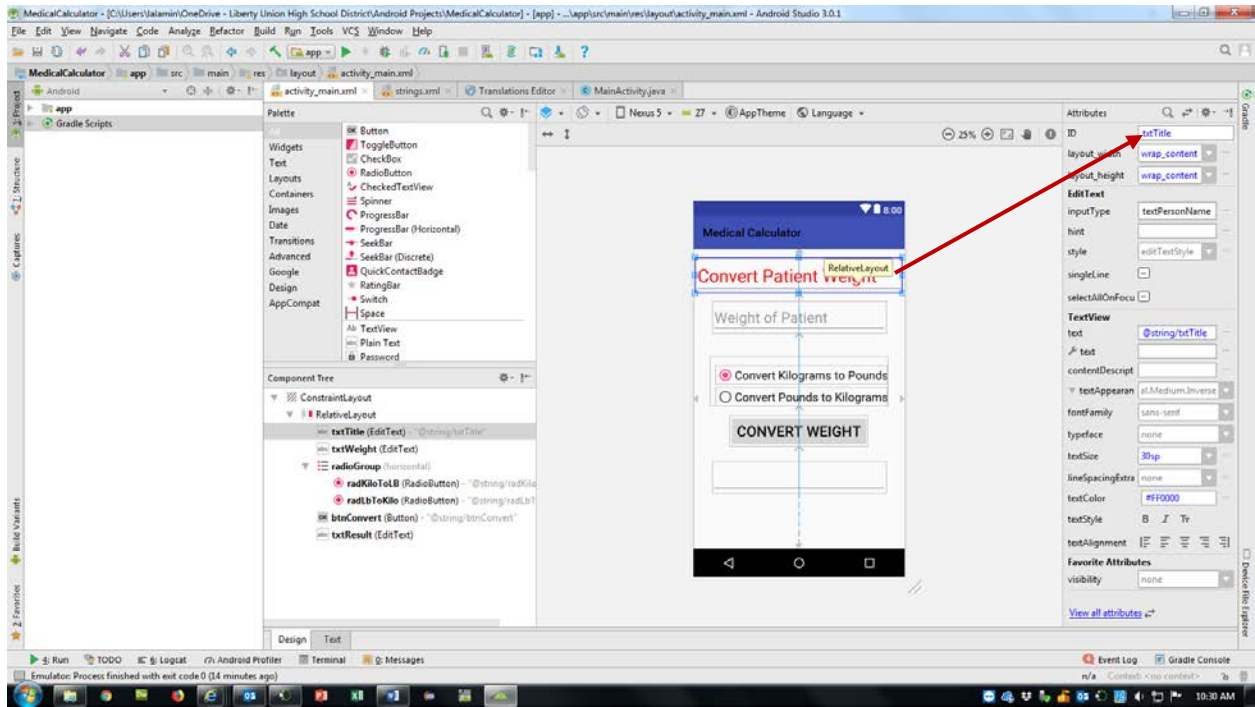


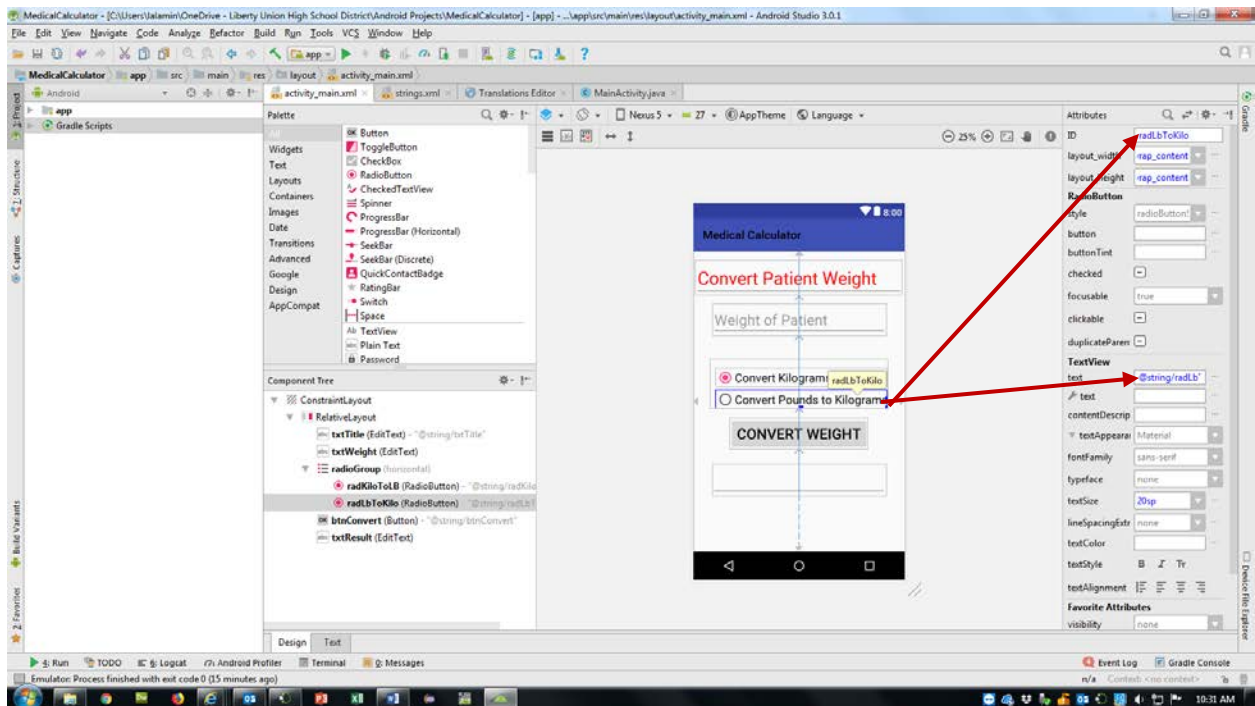
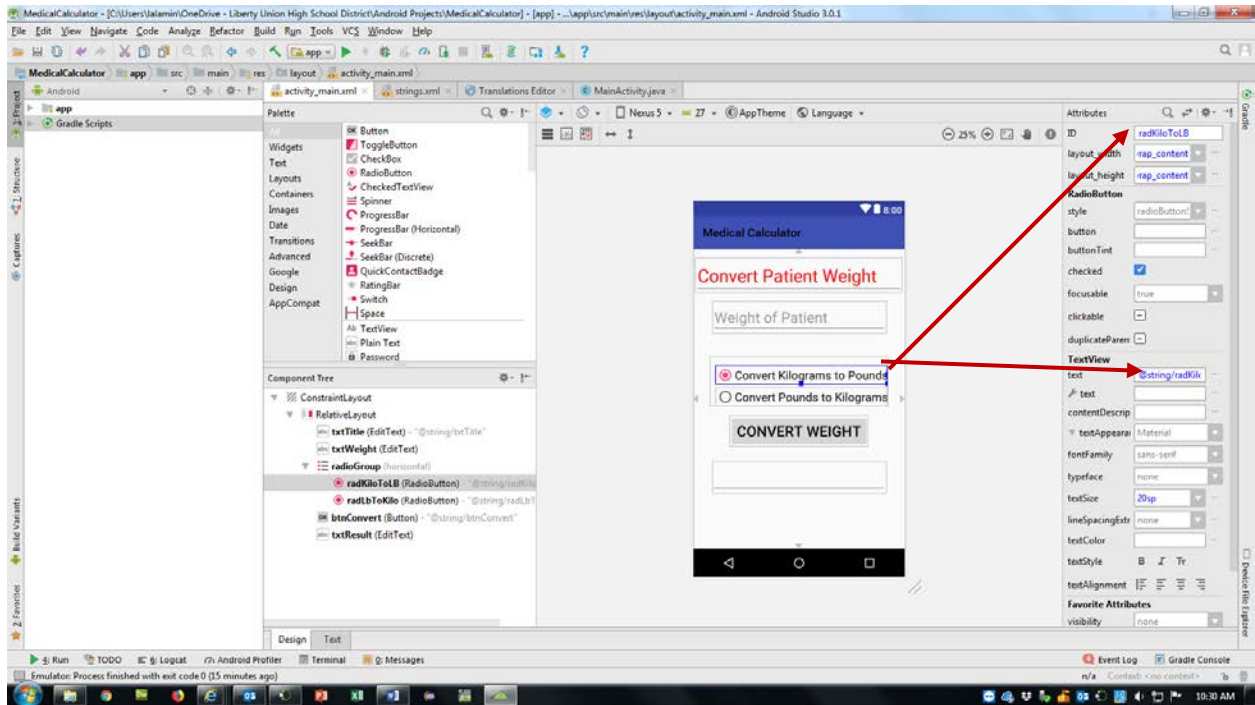
Project 4-0:

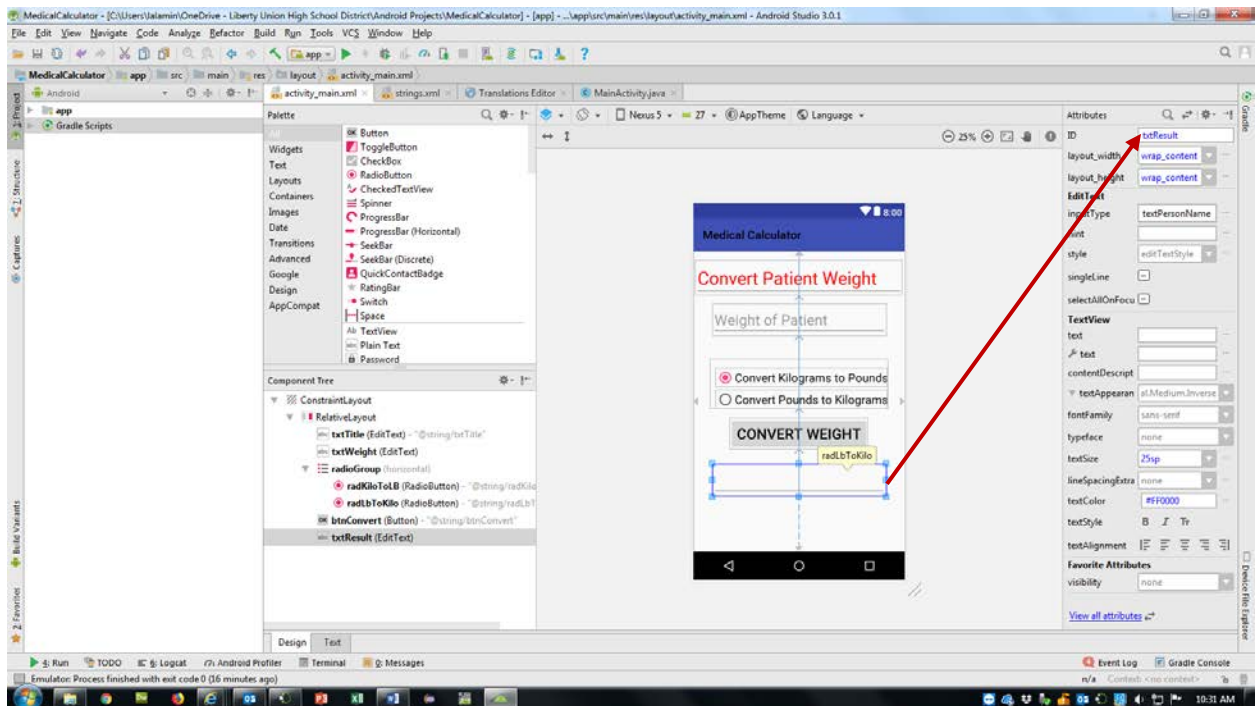
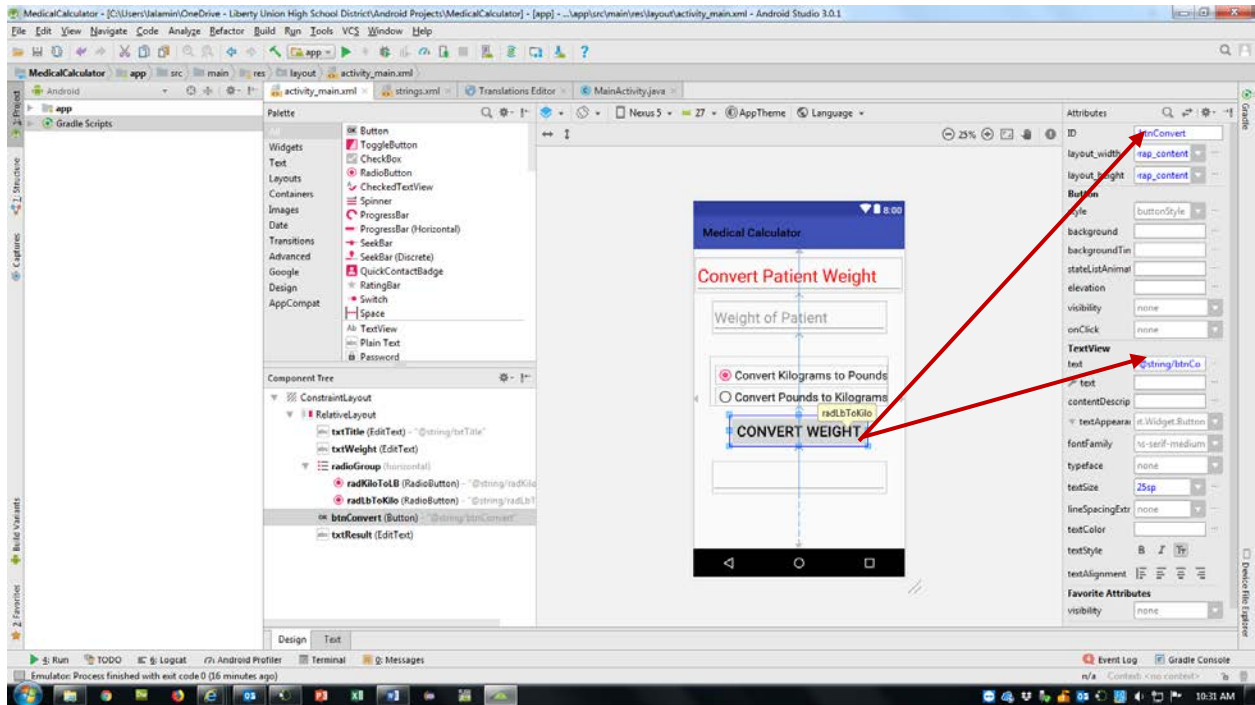
Application title: Medical Calculator App

Purpose: The Medical Calculator application provides nurses a mobile way to convert the weight of a patient from pounds to kilograms and kilograms to pounds.









Strings.xml

```
<resources>
    <string name="app_name">Medical Calculator</string>
    <string name="hint">Weight of Patient</string>
    <string name="radLbToKilo">Convert Pounds to
Kilograms</string>
    <string name="radKiloToLB">Convert Kilograms to
Pounds</string>
    <string name="btnConvert">Convert Weight</string>
    <string name="txtTitle">Convert Patient Weight</string>
    <string name="btnClear">Clear</string>
</resources>
```

Steps to a successful App.

1. Don't forget to create your Keys and Values in the Strings.xml file
2. Don't forget to link the Keys and Values to their actual Components in the Properties
3. All the design happens in the activity_main.xml
4. All the code for the Events (i.e. Buttons) is done on the MainActivity.java file
5. All pictures and media go inside the Drawable folder
6. To Import classes use Alt-Enter
7. Save and test your work frequently
8. Sync your work frequently

```

public class MainActivity extends AppCompatActivity {
    double conversionRate = 2.2;
    double weightEntered;
    double convertedWeight;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate( savedInstanceState );
        setContentView( R.layout.activity_main );
        getSupportActionBar().setDisplayHomeAsUpEnabled(true);
        getSupportActionBar().setLogo(R.mipmap.ic_launcher);
        getSupportActionBar().setDisplayUseLogoEnabled(true);

        final EditText weight = (EditText) findViewById(R.id.txtWeight);
        final RadioButton lbToKilo = (RadioButton) findViewById(R.id.radLbToKilo);
        final RadioButton kiloToLb = (RadioButton) findViewById(R.id.radKiloToLB);
        final TextView result = (TextView) findViewById(R.id.txtResult);
        Button convert = (Button) findViewById(R.id.btnConvert);

        convert.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                weightEntered=Double.parseDouble(weight.getText( ).toString( ));
                DecimalFormat tenth = new DecimalFormat("#.#");
                if (lbToKilo.isChecked( )) {
                    if (weightEntered <= 500) {
                        convertedWeight = weightEntered / conversionRate;
                        result.setText(tenth.format(convertedWeight) + " kilograms");
                    } else { Toast.makeText(MainActivity.this, "Pounds must be less than
500", Toast.LENGTH_LONG).show( );
                }
            }
        }
    }
}

```

```
        if(kiloToLb.isChecked( )) {
            if (weightEntered <= 225) {
                convertedWeight = weightEntered * conversionRate;
                result.setText(tenth.format(convertedWeight) + "pounds");
            } else {
                Toast.makeText(MainActivity.this, "Kilos must be less than 225",
Toast.LENGTH_LONG).show();
            }
        }
    });
}
}
```