Monica Chiu, Adriana D'Souza, Reda Ijaz, Javiar Titus, Ray Katz CS591 E3 Mobile App Development February 19, 2017

Assignment 4 Textbook Problems

Chapter 3: *Short Answers/Fill in the Code*

```
int rowSize = 4;
int columnSize = 2;
GridLayout gridLayout = new GridLayout(this);
gridLayout.setColumnCount(columnSize);
gridLayout.setRowCount(rowSize);
private Button button = new Button(this);
int btnRowSize = 5;
int btnColumnSize = 2;
private Button [][] buttons = new Button[btnRowSize][btnColumnSize];
for(int row = 0; row < btnRowSize; row++){</pre>
    for(int col = 0; col < btnColumnSize: col++) {</pre>
       // create the 5x2 2d array of buttons in current context
        buttons[row][col] = new Button(this);
GridLayout gl = new GridLayout(this);
private Button b = new Button(this);
int w = 200;
gl.addView(b,w,w);
private class ButtonHandler implements View.OnClickListener {
    public void onClick( View v ){
        if (v == b) {
            Log.w("Yes");
        } else {
            Log.w("No");
```

Chapter 4: *Multiple Choice*

- 4.1) As a table of rows and columns
- 4.2) ViewGroup
- 4.3) LinearLayout
- 4.4) So that we position components relative to other components
- 4.5) android.content
- 4.6) startActivity
- 4.7) onRestart
- 4.8) onCreate, onStart, and onResume (in that order)
- 4.9) onStop
- 4.10) Yes, for example by each accessing a public static instance variable from another class

Chapter 7: *Multiple Choice, Short Answers/Fill in the Code*

- 7.1) setOnTouchListener
- 7.2) getAction
- 7.3) bringToFront
- 7.4) GestureDetector
- 7.5) Public static inner interfaces of GestureDetector
- 7.6) Private methods/Constants that the action can be compared to ??
- 7.7) on Touch Event

```
// 7.18
protected void onCreate( Bundle savedInstanceState ){
    super.onCreate( savedInstanceState );
    // Your code goes here
    setContentView(R.layout.activity_main);
    View view = findViewById(android.R.id.content);
    view.setOnTouchListener(this);
}
...
Detector is a private GestureDetector instance variable and the method is under MainActivity class that extends AppCompatActivity and implements GestureDetector.OnGestureListener.
...
// 7.19
public boolean onTouchEvent( MotionEvent event ){
    // Your code goes here
    detector.onTouchEvent(event);
    return true;
}
```