CSCI 322/522   **Assignment 3: MVC, UI Components and Events**
100 points

This assignment follows what we learned in *2. MVC, UI Components and Events*.

Instructions

Part 1 – Color App (50 points)

- Write an app that lets the user create a color using the RGB color model that displays three text fields and one large label.

- The user will be allowed to enter integers between 0 and 255 included in each of the three text fields.

- If the user enters a negative value, it should be converted to 0 and, if the user enters a value greater than 255, it should be converted to 255.

- The value of each of the three text fields, top to bottom, represents the amount of red, green and blue, respectively, of the background color in the label.

- When the user modifies the number in any of the three text fields, the background color of the label should be updated.

- Look at the documentation for the View class in Android to figure out how to change the color of a View programmatically.

- The three text fields should have the same style with a minimum of four attributes.

- All four components should be centered vertically.

- Include a Model.

Part 2 – Addition App (50 points)

- Write an app that performs addition and that displays two text fields, one label and one button.

- The user can enter two integers, one in each of the two text fields.

- When the user clicks on the button, the two integers are added and the result is displayed in the label.

- The two text fields should be styled using the same style.

- The label and the button should also be styled with the same style, but different from that of the two text fields.

- Each style should have a minimum of four attributes.

- All four components should be centered vertically.

- Include a Model.

What to Turn In

Document any Java classes as described in *322 & 522 Android Coding and Documentation Guidelines* and zip any apps separately.

Attach your zipped file(s) to your assignment submission on Blackboard.