Coding Brackets (70%):

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| No. | % | Coding Brackets |
| 1 | 10 | * Generate the shell of an application that contains a single activity with a single custom view * Add in controls for starting and stopping traces * Add in control for changing the sensor type |
| 2 | 20 | * Enable the controls for changing the sensor * Enable the controls for starting and stopping the traces * When traces are running keep the last 5 seconds worth of trace data in a datastructure of some description at all times. |
| 3 | 30 | * Generate a custom view for the single traces that has an upper limit of 600 lux for the light sensor and 20cm for the proximity sensor * You will fail this bracket if your drawing commands are not done relative to canvas.getWidth() and canvas.getHeight() |
| 4 | 40 | * Generate a custom view for the double traces that has a limit of 1G (positive or negative) for the linear accelerometer and a limit of 2 rads/s ) positive or negative for the gyroscope * You will fail this bracket if your drawing commands are not done relative to canvas.getWidth() and canvas.getHeight() |
| 5 | 50 | Modify the single trace to adapt the Y axis maximum value to the maximum value that is seen in the last 5 seconds of data |
| 6 | 60 | Modify the multi-trace to adapt the Y axis maximum and minimum to the absolute highest value seen in the last 5 seconds of data |
| 7 | 70 | Add in UI elements to display the current values of the trace your user is currently looking at. |

Documentation Brackets (30%):

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| No. | % | Documentation Brackets |
| 1 | 15 | Document why you designed the UI the way you did. This should detail your choices in widget layout and position and how they make user interaction easier. Examples of what I am looking for are as follows:   * The button was placed at the bottom of the screen as it is a frequent action that the user's thumb must reach * The colour scheme that was chosen to avoid the main form of colour blindness and produce high contrast for the visually impaired.   You should also describe the mathematics used to draw your custom view. |
| 2 | 30 | Give a high-level description of every method in your Java code. You should also document the datastructures you have used and why they are used.  **Please Note:** that there should be no copying and pasting of code here. |