***Lab 4***

**Mobile Application Development – 2**

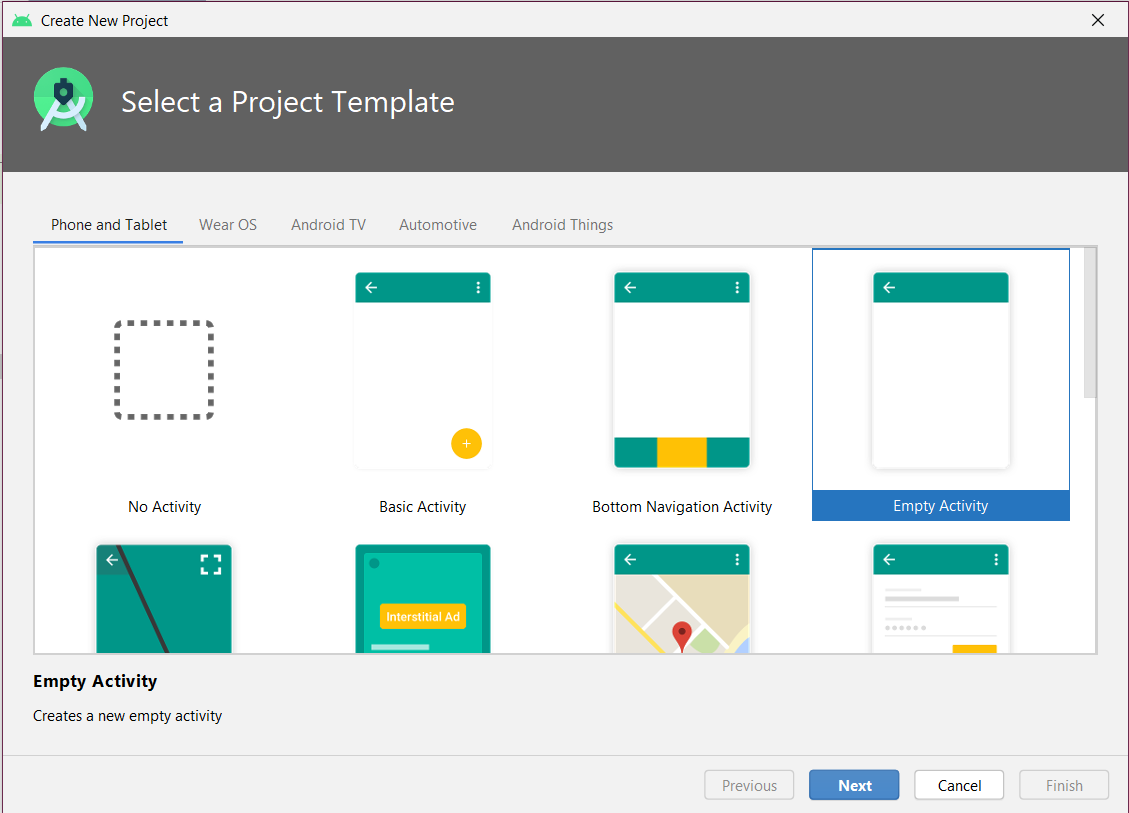
**Rebecca Moses Dmello**

**300322984**

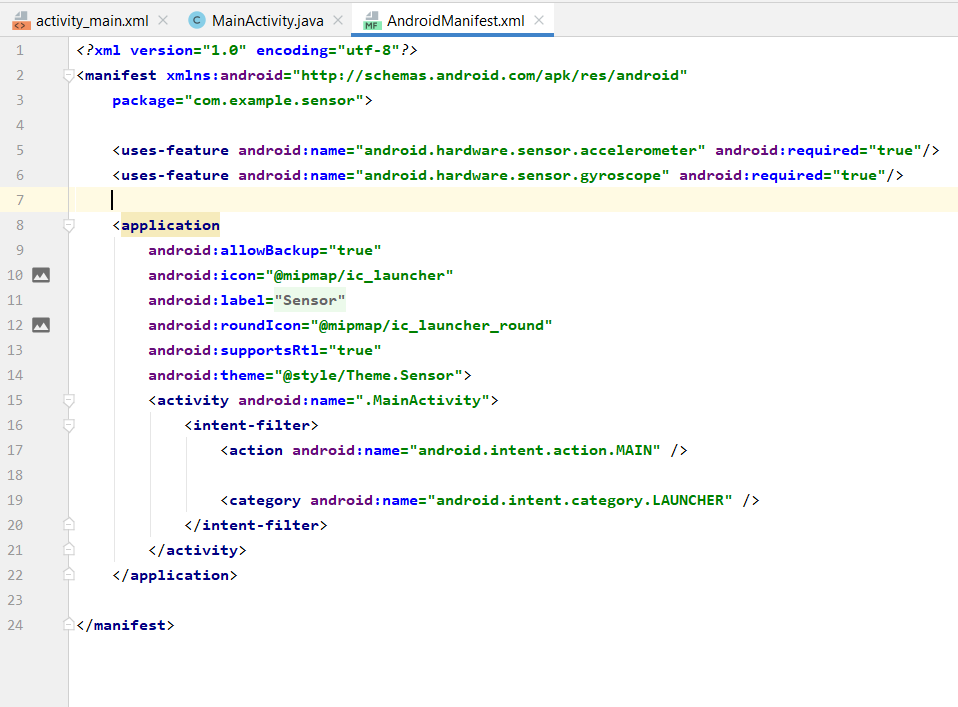
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I am confirming that I have completed this classwork assignment completely based on the requirements and it is working and fully functional.

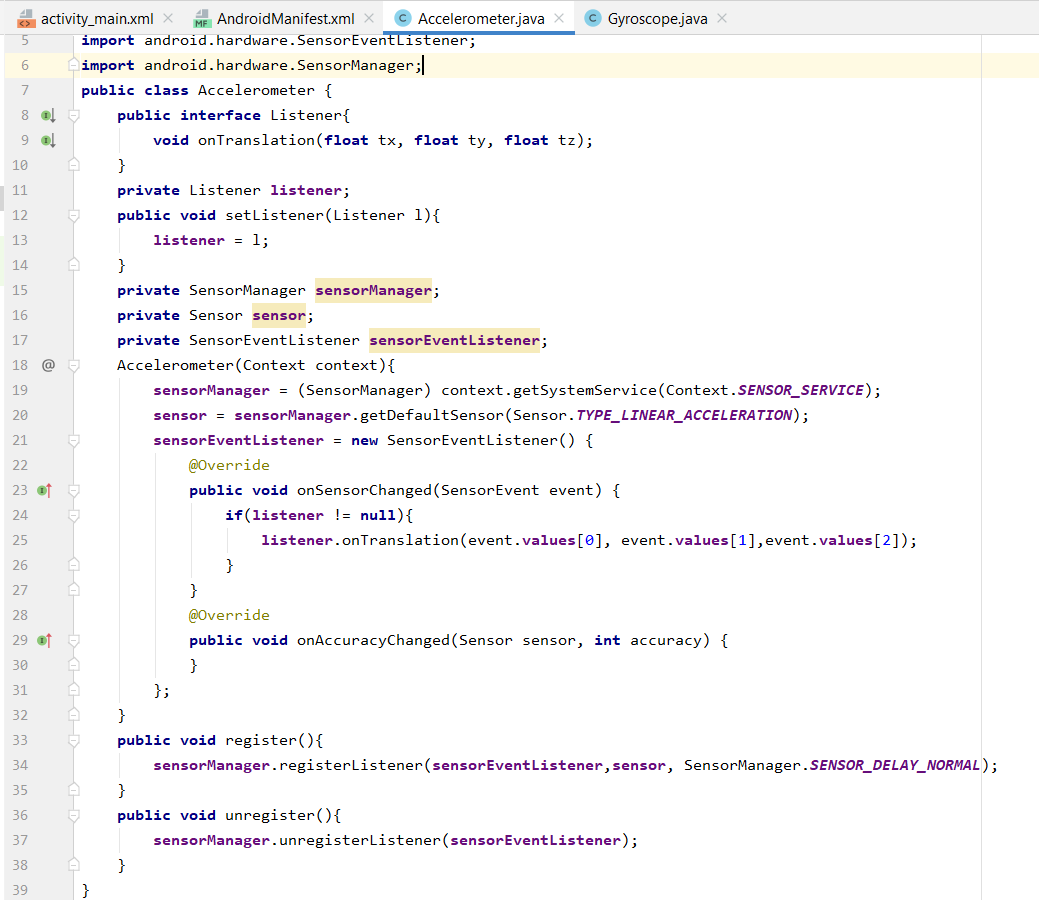
**Step 1: Create a New Project and Select Empty Activity**

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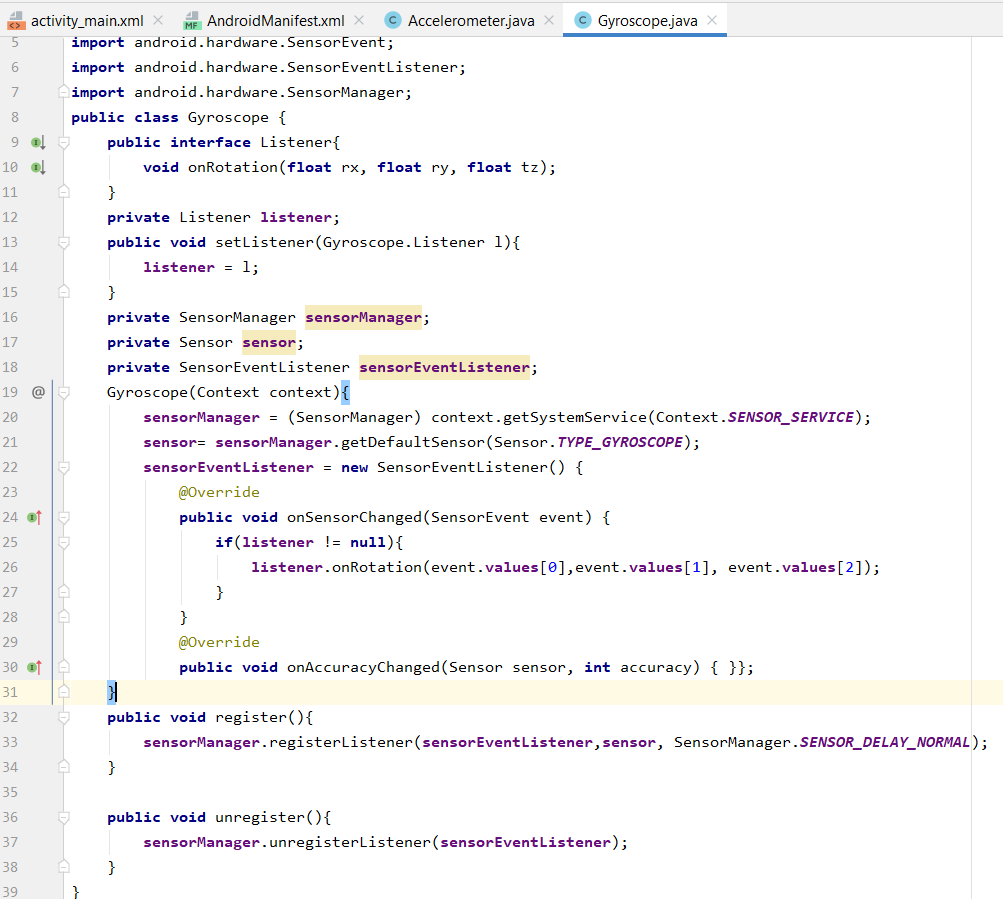
**Step 2: Open AndroidManifest.xml and add the uses-feature tag**

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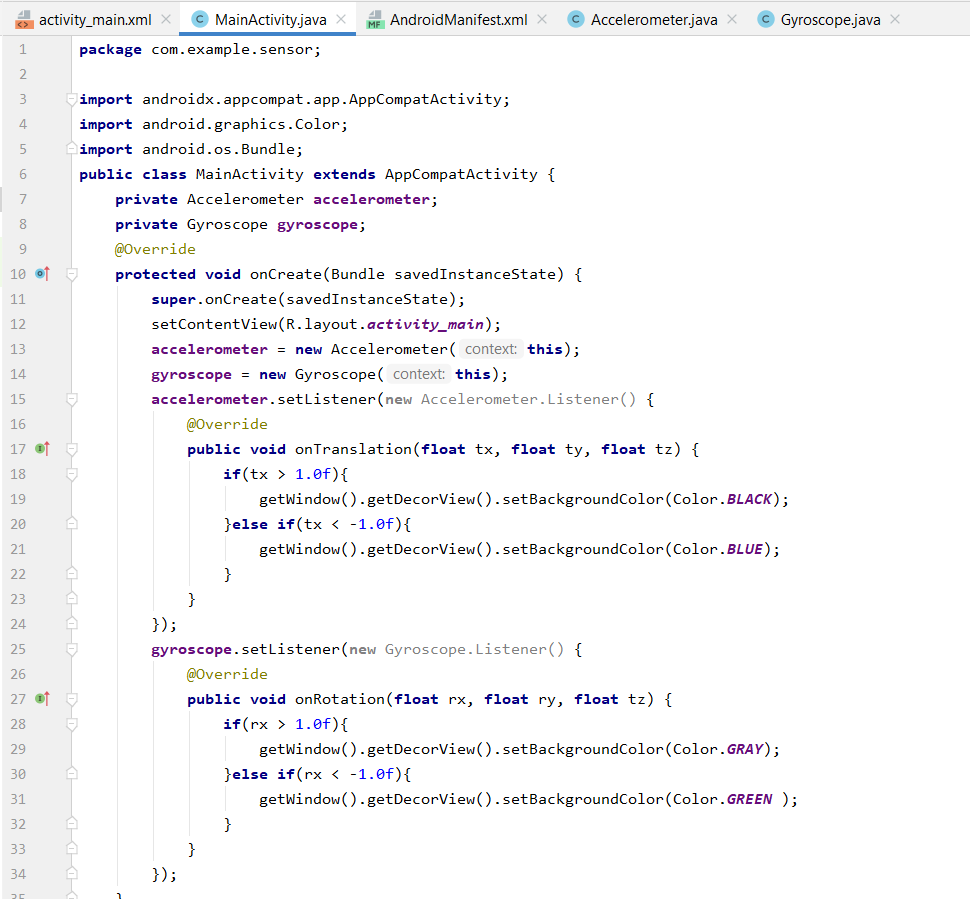
**Step 3: Create a new Java class by right clicking on the package -> new -> java class and name it as Accelerometer and add the following code in it.**

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**Step 4: Create a new Java class by right clicking on the package -> new -> java class and name it as Gyroscope and add the following code in it.**

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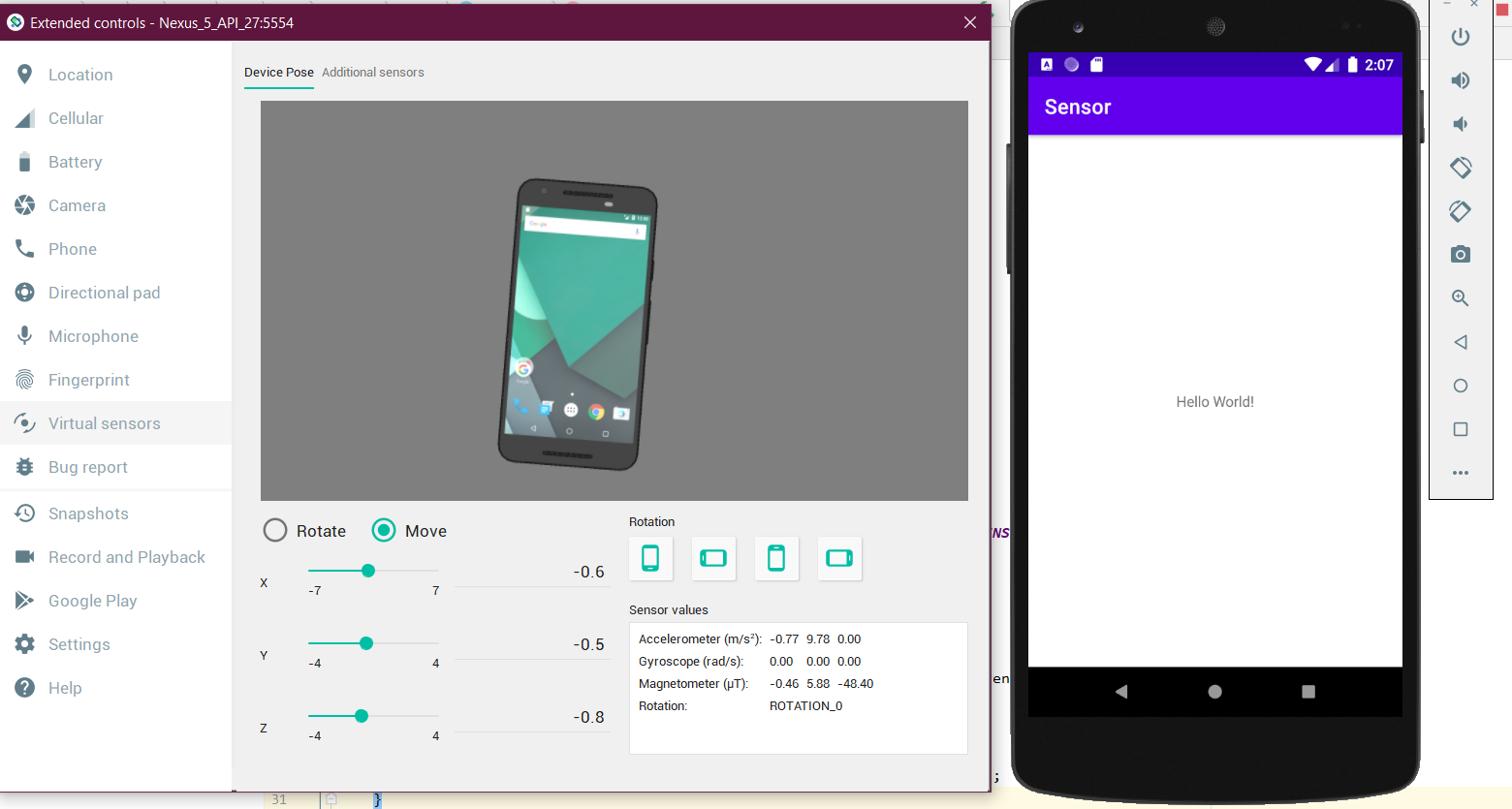
**Step 5: Go to MainActivity.class and Instantiate an object of Accelerometer and Gyroscope.**

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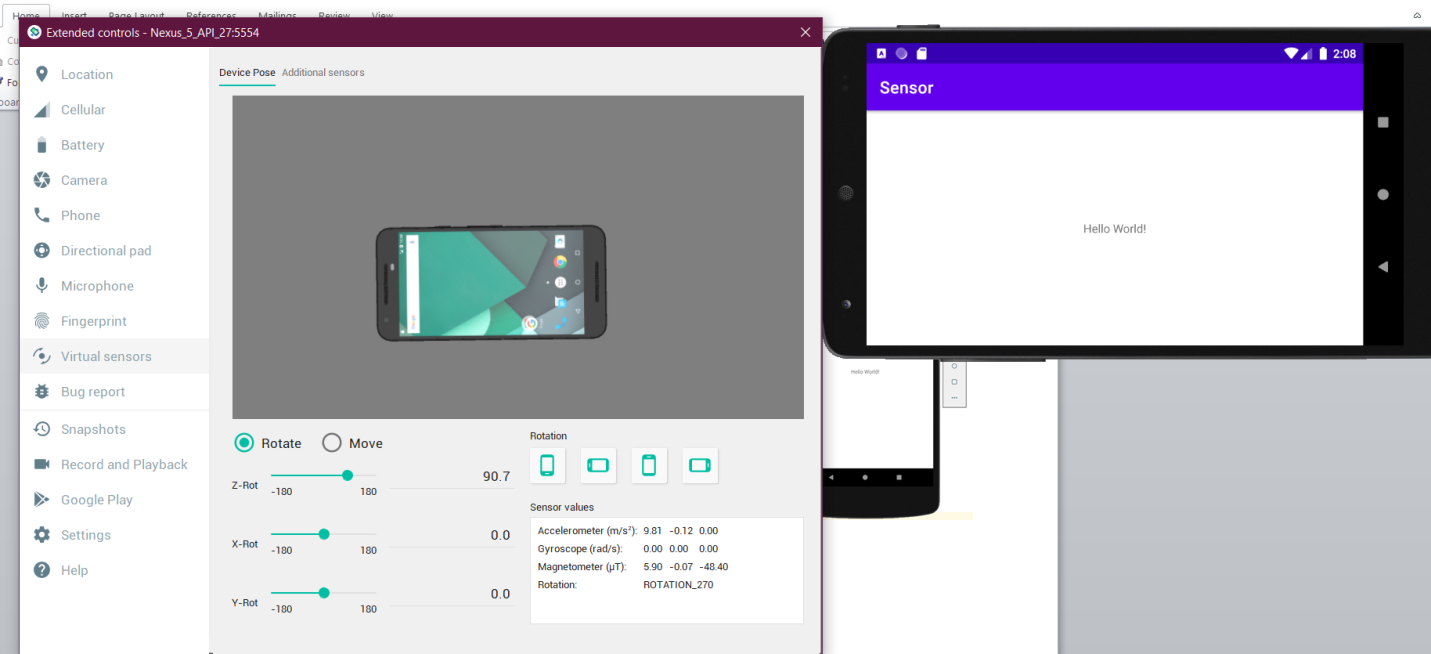
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**Step 6: Run your emulator to observe the animations**

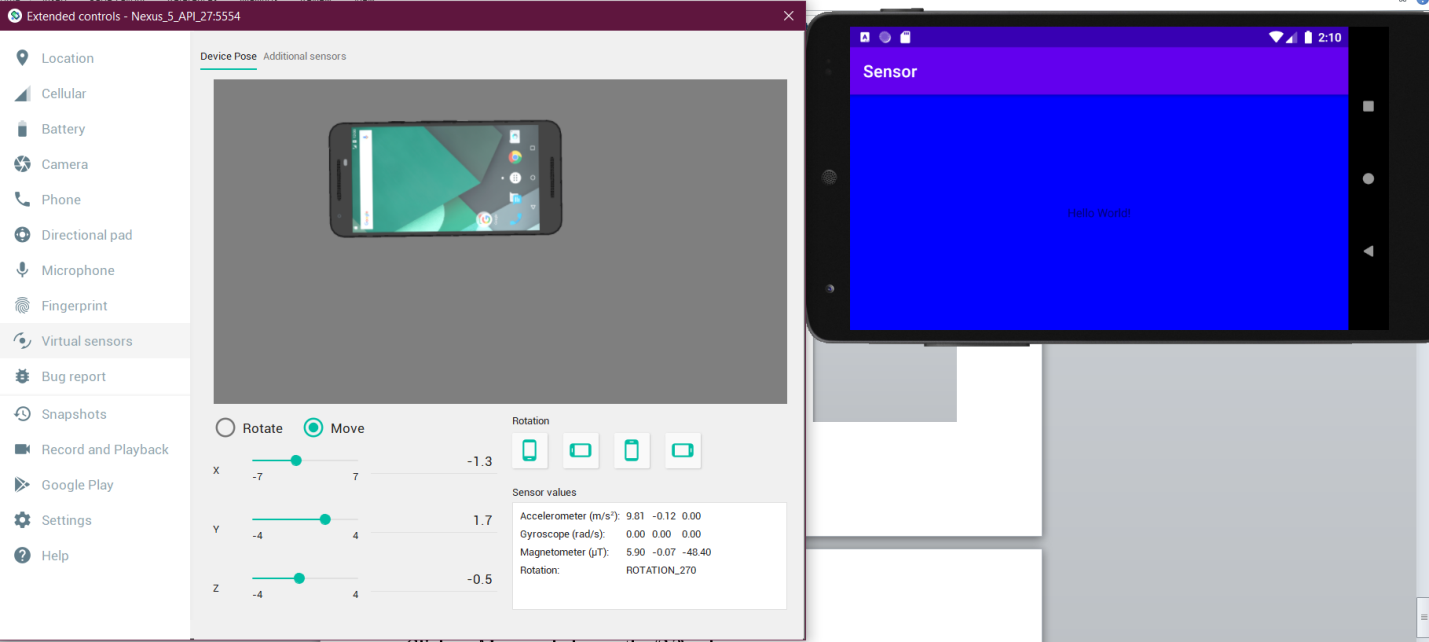
**Click on the 3 dots on the right of the emulator and select virtual sensors option**

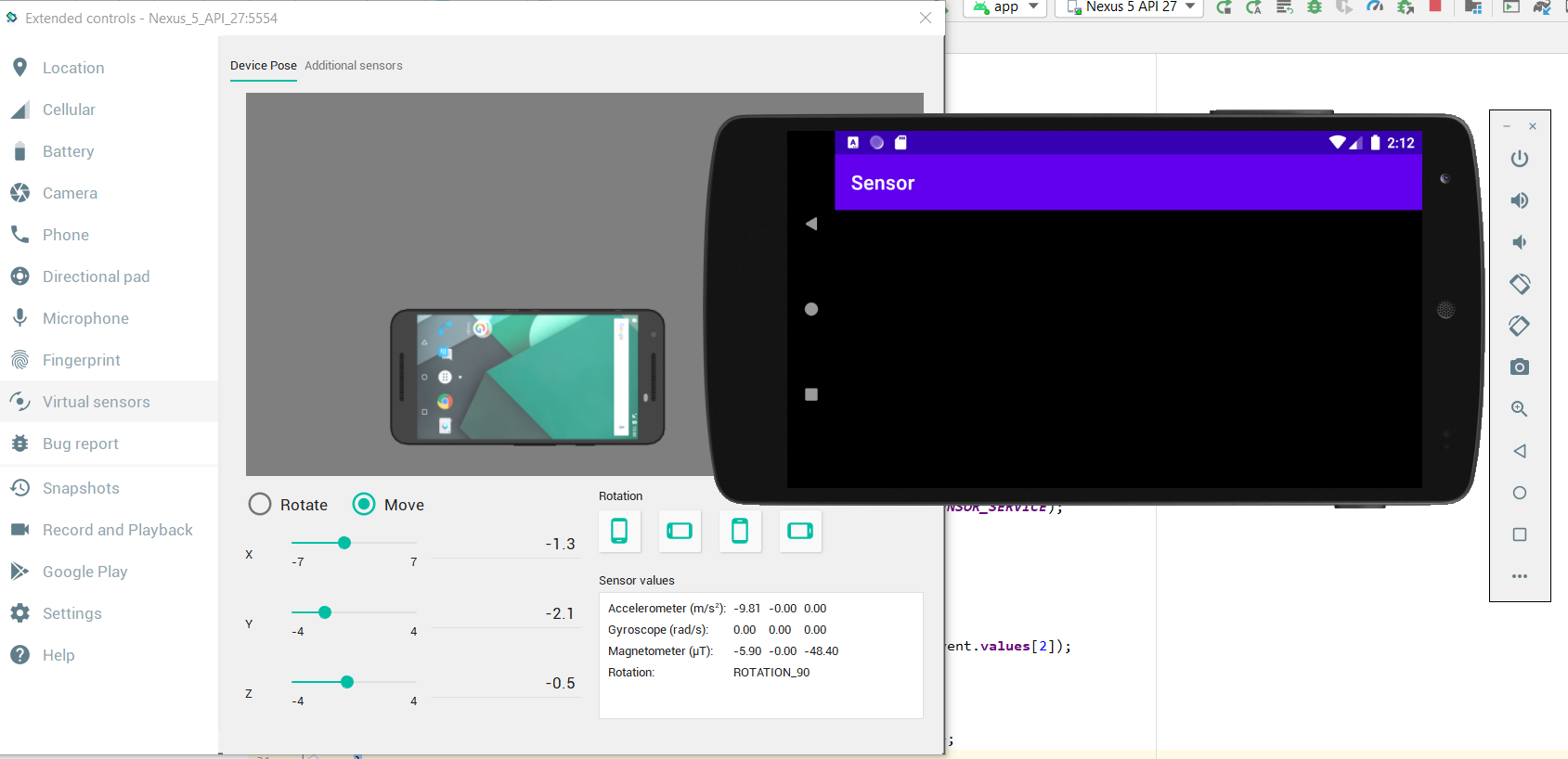
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**Click on rotate and change the “Z” value**

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**Click on Move and change the “Y” value, you will notice the change in color of the background as specified in the code.**

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**References:**

**Programming Android Motion Sensors**

https://www.youtube.com/watch?v=OPsVr44uCb8