COMP 4073-Y01 Embedded Systems

Project 3: Paint Mixer

Write a program for Sense HAT (or the emulator) to map X, Y, and Z acceleration (or orientation) values into R, G, and B color values on the LED matrix. That way, when you tilt the Sense HAT, the LED matrix will display different colors to simulate a paint mixer.

When you write your program, please consider using delay to avoid the problem of changing color too fast to be perceived. Also, you want to make sure that you map the X, Y, and Z values appropriately to prevent the problem of color values changing very little.

Please make a short video to demonstrate your project. You have to describe your problem first, then describe your solution, then demonstrate your project, as well as describe your team work, if you have. Upload the video to YouTube, then include the link in the project report. Make sure your link is valid and I can download your video from that link.

Notes:

1. Name your report file as “Last name, First name\_pj3.docx/.pdf”, for example, my last name is Wang and first name is Yonghui, so, my word file will be named as “Wang, Yonghui\_pj3.docx”
2. Submit your project report to eCourses either in a word file or in a pdf file;
3. Due time: 10/20/2020, 11:59pm