

Task 8.1D – Answers

Question #1

I2C communication possesses the benefit of having multiple I2C-enabled devices being able to communicate with the Raspberry Pi at once. Each device is assigned an address that can be used in program code whenever the program needs to read from it. An embedded system may require multiple sensors to be connected to the board. One can accommodate for this by daisy-chaining connections between the sensors' SDA and SCL pins and then connecting the SDA and SCL pins of the last sensor in the chain to the corresponding pins on the Raspberry Pi board. The programmer can then access each individual device through the address that is assigned to it by the Pi.

Question #2

https://github.com/Goolog/SIT210_Task8.1D_RPi_I2C

Question #3

<https://youtu.be/CpL9SE4ueHI>