

ESM_22

Demo Program using I2C

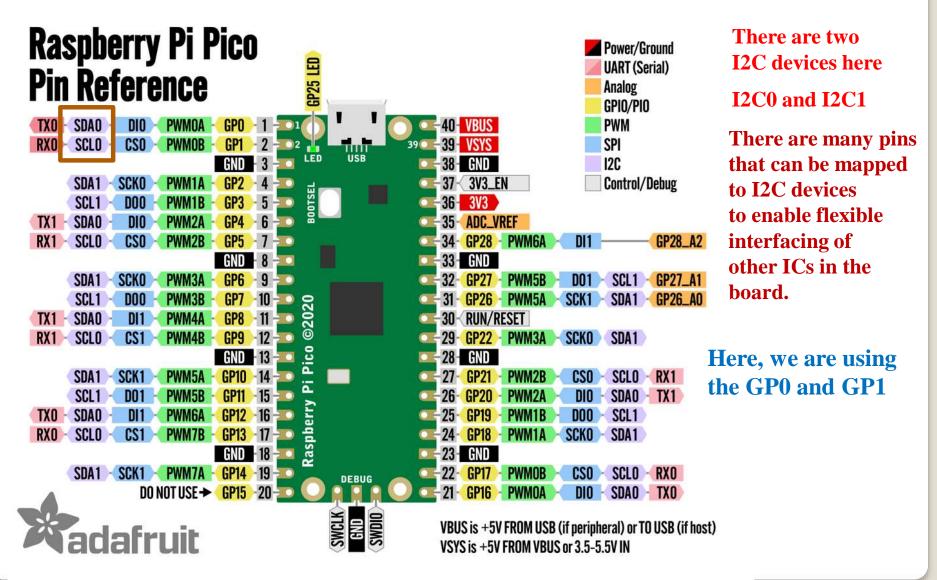
Mouli Sankaran

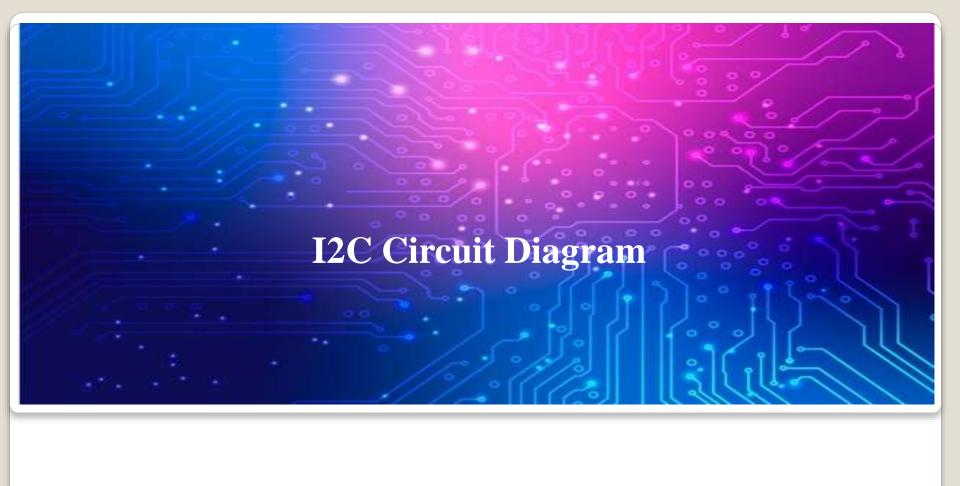
Lecture 3.4.2 Focus

- I2C Demo
- Circuit Diagram



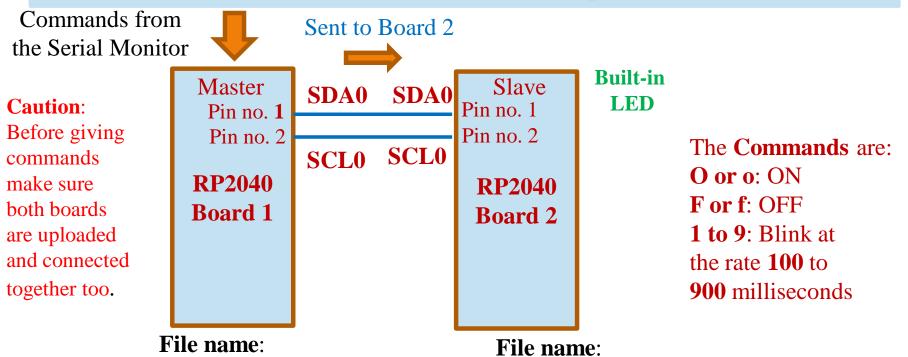
RP2040 Pin Out:





Two Programs (Run on the Boards 1 and 2)

I2C0 – Receives data through ISR



- $prog_lec_3_4_2_i2c0_master.ino \quad prog_lec_3_4_2_i2c0_slave.ino$
- Interconnect the boards by connecting the I2C 0 SDA and SCL pins as shown above
- Upload the programs on to the boards from the laptop
- From the Serial monitor of Board 1 (Tx) give the above commands to control the built-in LED on the Board 2 (Rx)

Summary

- I2C Demo
- Circuit Diagram