Lab 09: Requirement Description

- ADC
 - Video: https://www.youtube.com/watch?v=hN71 2UdSg
 - Sample code: https://www.youtube.com/watch?v=pQz4uJpra7M
 - HackMD: https://hackmd.io/Mg65lxZYS9mjDybkGu-qZg
- Basic (70%):
 - Description: Use four bulbs as a counter to record the degree of rotation of the variable resistor, when the variable resistor is rotated, the form of the light bulb is sequentially changed to indicate 0~15. Please use 10-bit resolution and map 0~1023 to 0~15, the oscillator frequency needs to be >= 4 MHz.
 - Example: https://youtu.be/sveEmRz5RgY
- Advanced (30%):
 - Description: Use four bulbs to indicate 0~15. Please light up the bulb while rotating the variable resistor at a constant speed to show pi, which is "3141592653".
- Standard of Grading
 - Program in C only.