**電通二乙微處理器實驗 實驗結報**

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| **實驗名稱** | **Lab08-CP1** | | |
| **組別** |  | **組員** | **柯鈺傑** |

1. **實驗目的**

**將超音波測距之值顯示於 LCD**

1. **實驗步驟**

**Arduino接lcd&超音波感測器**

1. **程式碼**

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| **#include <LiquidCrystal.h>**  **#include <Ultrasonic.h>**  **#define TRIGGER 4**  **#define ECHO 5**  **Ultrasonic ultrasonic(TRIGGER, ECHO);**  **LiquidCrystal lcd(12, 11, 10, 9, 8, 7);**  **void setup() {**  **lcd.begin(16,2);**  **}**  **void loop(){**  **float cmMsec, inMsec;**  **long microsec = ultrasonic.timing();**  **cmMsec = ultrasonic.convert(microsec, Ultrasonic::CM); // 計算距離，單位: 公分**  **inMsec = ultrasonic.convert(microsec, Ultrasonic::IN); // 計算距離，單位: 英吋**  **lcd.print("MS: "); lcd.print(microsec);**  **lcd.setCursor(0, 1);**  **lcd.print("CM: "); lcd.print(cmMsec);**  **delay(1000);**  **lcd.clear();**  **}** |

1. **實驗結果及分析**

**可以在lcd顯示超音波感測器的讀值**

1. **心得討論**

**活用lcd顯示東西很好玩**