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#include <LiquidCrystal.h>
#include <Servo.h>

LiquidCrystal lcd(8, 9, 4, 5, 6, 7);

// define some values used by the panel and buttons
int lcd_key    = 0;
int adc_key_in = 0;
#define btnRIGHT  0
#define btnUP     1
#define btnDOWN   2
#define btnLEFT   3
#define btnSELECT 4
#define btnNONE   5

Servo myservo1;
Servo myservo2;

int servo1;
int servo2;

// read the buttons
int read_LCD_buttons()
{
  adc_key_in = analogRead(0);
  if (adc_key_in > 1000) return btnNONE;
  if (adc_key_in < 50)   return btnRIGHT;
  if (adc_key_in < 250)  return btnUP;
  if (adc_key_in < 450)  return btnDOWN;
  if (adc_key_in < 650)  return btnLEFT;
  if (adc_key_in < 850)  return btnSELECT;

  return btnNONE;
}

void setup()
{
  lcd.begin(16, 2);           // start the library
  lcd.setCursor(0, 0);
  lcd.print("Push the buttons"); // print a simple message
  myservo1.attach(12);
  myservo2.attach(13);
  pinMode(19, OUTPUT);
}

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void loop()
{
  digitalWrite(19, LOW);
  lcd.setCursor(9, 1);          // move cursor to second line "1" and 9 spaces over
  lcd.print(millis() / 1000);  // display seconds elapsed since power-up

  lcd.setCursor(0, 1);        // move to the beginning of the second line
  lcd_key = read_LCD_buttons(); // read the buttons

  switch (lcd_key)           // depending on which button was pushed, we perform an action
  {
    case btnRIGHT:
      {
        digitalWrite(19, HIGH);
        myservo1.write(servo1);
        myservo2.write(servo2);
        // digitalWrite(19, LOW);
        lcd.print("RIGHT ");
        break;
      }
    case btnLEFT:
      {
        servo1 = 0;
        servo2 = 0;
        digitalWrite(19, HIGH);
        myservo1.write(servo1);
        myservo2.write(servo2);
        // digitalWrite(19, LOW);
        lcd.print("LEFT  ");
        break;
      }
    case btnUP:
      {
        servo1 = 45;
        servo2 = 45;
        digitalWrite(19, HIGH);
        myservo1.write(servo1);
        myservo2.write(servo2);
        // digitalWrite(19, LOW);
        lcd.print("UP   ");
        break;
      }
  }
}

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case btnDOWN:
{
  servo1 = 90;
  servo2 = 90;
  digitalWrite(19, HIGH);
  myservo1.write(servo1);
  myservo2.write(servo2);
  // digitalWrite(19, LOW);
  lcd.print("DOWN  ");
  break;
}
case btnSELECT:
{
  servo1 = 180;
  servo2 = 180;
  digitalWrite(19, HIGH);
  myservo1.write(servo1);
  myservo2.write(servo2);
  // digitalWrite(19, LOW);
  lcd.print("SELECT");
  break;
}
case btnNONE:
{
  lcd.print("NONE  ");
  break;
}
}
}
```