// C++ code

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LiquidCrystal Library - Hello World

Demonstrates the use of a 16x2 LCD display.

The LiquidCrystal library works with all LCD

displays. There are many of them out

there, and you can usually tell them by the

16-pin interface.

The circuit:

\* LCD RS pin to digital pin 12

\* LCD Enable pin to digital pin 11

\* LCD D4 pin to digital pin 5

\* LCD D5 pin to digital pin 4

\* LCD D6 pin to digital pin 3

\* LCD D7 pin to digital pin 2

\* LCD R/W pin to ground

\* LCD VSS pin to ground

\* LCD VCC pin to 5V

\* 10K resistor:

\* ends to +5V and ground

\* wiper to LCD VO pin (pin 3)

Library originally added 18 Apr 2008 by David

A. Mellis

library modified 5 Jul 2009 by Limor Fried

(http://www.ladyada.net)

example added 9 Jul 2009 by Tom Igoe

modified 22 Nov 2010 by Tom Igoe

This example code is in the public domain.

http://www.arduino.cc/en/Tutorial/LiquidCrystal

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#include <LiquidCrystal.h>

#include <Servo.h>

Servo S1,S2;

#define IR\_Slot1 7

#define IR\_Slot2 8

#define IR\_Entry 6

#define IR\_Exit 13

int seconds = 0;

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

void setup()

{

lcd.begin(16, 2); // Set up the number of columns and rows on the LCD.

S1.attach(10);

S2.attach(9);

S1.write(seconds);

S2.write(seconds);

pinMode (IR\_Slot1,INPUT);

pinMode (IR\_Slot2, INPUT);

pinMode (IR\_Entry, INPUT);

pinMode (IR\_Exit, INPUT);

}

void loop()

{

lcd.setCursor(3,0);

lcd.print("Car Parking");

delay(1000);

lcd.setCursor(5,1);

lcd.print("System");

delay(1000);

lcd.clear();

lcd.setCursor(0,0);

lcd.print(" Slot1 Available ");

delay(1000);

lcd.clear();

lcd.setCursor(0, 1);

lcd.print(" Slot2 Available");

delay(1000);

lcd.clear();

if (digitalRead(IR\_Slot1) == HIGH)

{

lcd.setCursor(0,1);

lcd.print("Slot1 Fill");

delay(1000);

lcd.clear();

}

else

{

lcd.setCursor(0,1);

lcd.print(" Slot1 Available");

delay(1000);

lcd.clear();

}

if (digitalRead(IR\_Slot2)==HIGH)

{

lcd.setCursor(0,1);

lcd.print("Slot2 Fill");

delay(1000);

lcd.clear();

}

else

{

lcd.setCursor(0,1);

lcd.print("Slot2 Available");

delay(1000);

lcd.clear();

}

if (digitalRead(IR\_Entry)==HIGH)

{

S1.write(seconds+90);

}

else

{

S1.write(seconds);

}

if (digitalRead(IR\_Exit)==HIGH)

{

S2.write(seconds+90);

}

else

{

S2.write(seconds);

}

}