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Experiment No. : 02

Statement : Make experiment 1 work with two switches.

One switch press would result running of LED

in one direction, while the second switch

press would result running of LEDs in

opposite direction.

Date of Exp. : xx/xx/xxxx

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/\* Code \*/

void setup() {

pinMode(11, OUTPUT);

pinMode(9, OUTPUT);

pinMode(7, OUTPUT);

pinMode(5, OUTPUT);

pinMode(3, OUTPUT);

pinMode(2, INPUT\_PULLUP);

pinMode(4, INPUT\_PULLUP);

}

// the loop function runs over and over again forever

void loop() {

byte buttonState1 = digitalRead(2);

byte buttonState2 = digitalRead(4);

if (buttonState1 == HIGH && buttonState2 == LOW) {

digitalWrite(11, HIGH);

delay(100);

digitalWrite(11, LOW);

delay(100);

digitalWrite(9, HIGH);

delay(100);

digitalWrite(9, LOW);

delay(100);

digitalWrite(7, HIGH);

delay(100);

digitalWrite(7, LOW);

delay(100);

digitalWrite(5, HIGH);

delay(100);

digitalWrite(5, LOW);

delay(100);

digitalWrite(3, HIGH); // turn the LED on (HIGH is the voltage level)

delay(100); // wait for a second

digitalWrite(3,LOW);

delay(100);

}

buttonState1 = digitalRead(2);

if (buttonState1 == LOW && buttonState2 == HIGH){

digitalWrite(3, HIGH); // turn the LED on (HIGH is the voltage level)

delay(100); // wait for a second

digitalWrite(3,LOW);

delay(100);

digitalWrite(5, HIGH);

delay(100);

digitalWrite(5, LOW);

delay(100);

delay(100);

digitalWrite(7, HIGH);

delay(100);

digitalWrite(7, LOW);

delay(100);

delay(100);

digitalWrite(9, HIGH);

delay(100);

digitalWrite(9, LOW);

delay(100);

digitalWrite(11, HIGH);

delay(100);

digitalWrite(11, LOW);

delay(100);

} // wait for a second

}



