Assignment 4 LCD Interface

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Version 1.0

Format: Name the document in the combination of name、ID and No. of Assignment.

**Example: Ping Yi\_23\_Assignment1.doc**

**Email the document to “pingy@wxit.edu.cn” before Nov 6th.**

**Task 1** 4 LEDs are connected to Arduino Uno, try to use LCD1602 to display the current state of LED been lighted.

任务1 使用3个LED连接至Arduino Uno，使用LCD1602 显示当前小灯点亮的状态，（1s位移）。

**You could use Tinker CAD or Proteus for the verifying.可使用在线工具Tinker CAD或Proteus进行仿真。**

#include<LiquidCrystal.h>

LiquidCrystal lcd**(**13**,** 12**,** 7**,** 6**,** 5**,** 4**);**

String ledColor**[**3**]={**"Red "**,**"Green"**,**"Blue"**};**

void setup**(){**

Serial**.**begin**(**9600**);**

pinMode**(**8**,** OUTPUT**);**

pinMode**(**9**,** OUTPUT**);**

pinMode**(**10**,** OUTPUT**);**

lcd**.**begin**(**16**,**2**);**

**}**

void loop**(){**

**for(**int i**=**8**;**i**<**11**;**i**++)**

**{**

int ledNo**=**i**;**

#include<LiquidCrystal.h>

LiquidCrystal lcd**(**13**,** 12**,** 7**,** 6**,** 5**,** 4**);**

String ledColor**[**3**]={**"Red "**,**"Green"**,**"Blue"**};**

void setup**(){**

Serial**.**begin**(**9600**);**

pinMode**(**8**,** OUTPUT**);**

pinMode**(**9**,** OUTPUT**);**

pinMode**(**10**,** OUTPUT**);**

lcd**.**begin**(**16**,**2**);**

**}**

void loop**(){**

**for(**int i**=**8**;**i**<**11**;**i**++)**

**{**

int ledNo**=**i**;**

digitalWrite**(**i**,** HIGH**);**

lcd**.**setCursor**(**0**,**0**);**

lcd**.**print**(**"Current LED is:"**);**

delay**(**10**);**

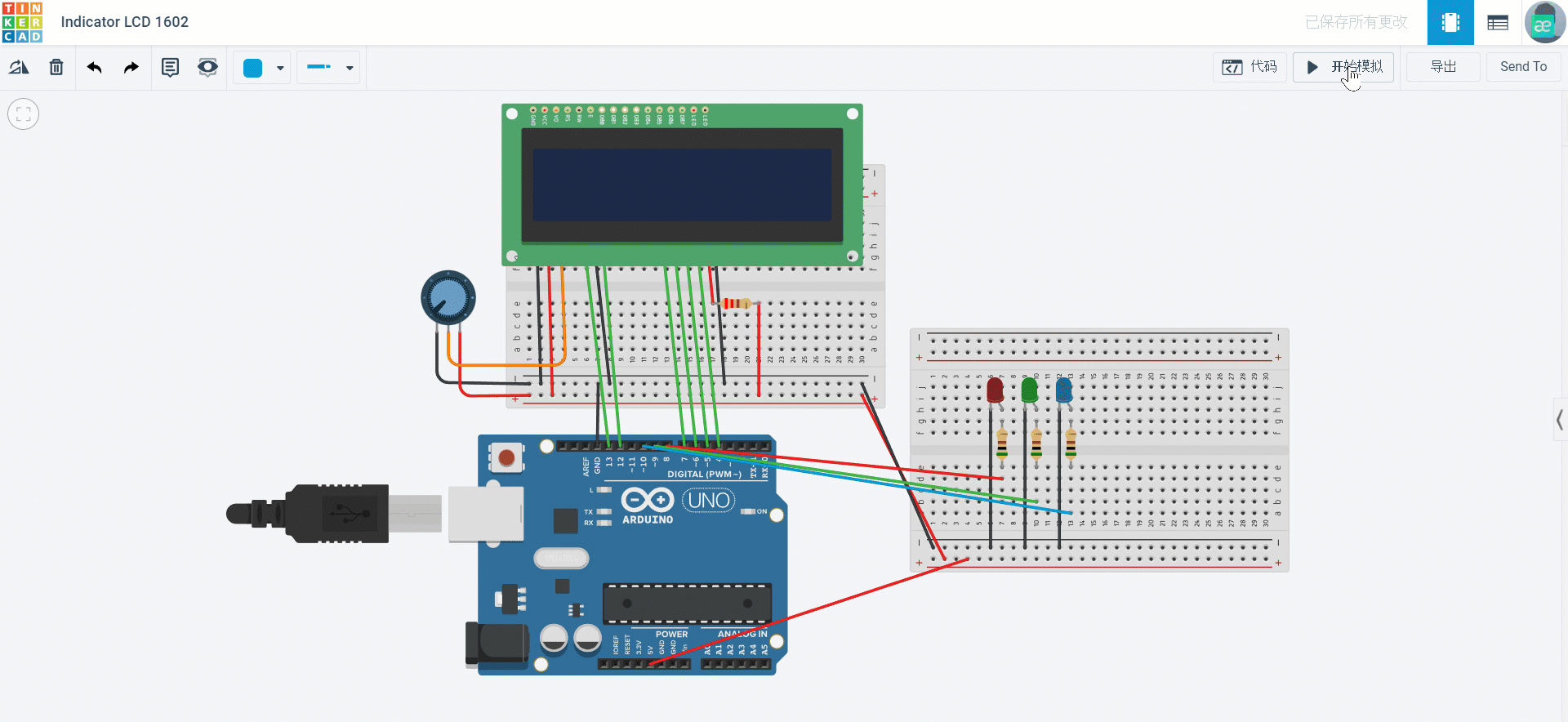
lcd**.**setCursor**(**3**,**1**);**

lcd**.**print**(**ledColor**[**ledNo**-**8**]);**

delay**(**1000**);**

digitalWrite**(**i**,**LOW**);**

**}**

****

**Fig 1 LCD Display Indicator**