Assignment 4 LCD Interface

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

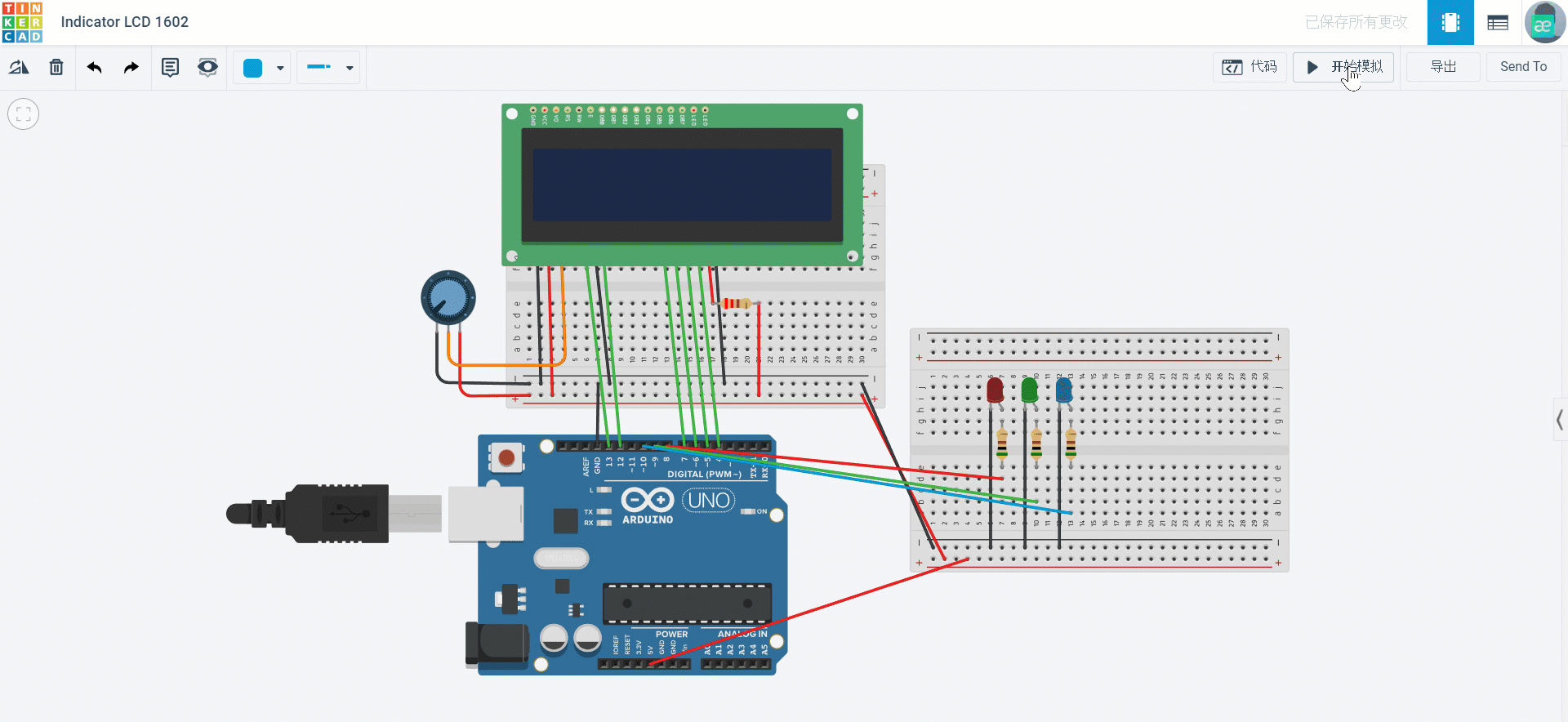
**Example: Ping Yi\_23\_Assignment1.doc**

**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。**

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**Fig 1 LCD Display Indicator**

1. #include<LiquidCrystal.h>  
   2.LiquidCrystal lcd(13,12,7,6,5,4);  
   3.String ledColor[3]={"red","Greed","blue"};  
   4.void setup(){  
   5.  Serial.begin(9600);  
   6.  pinMode(8,OUTPUT);  
   7.  pinMode(9,OUTPUT);  
   8.  pinMode(10,OUTPUT);  
   9.  lcd.begin(16,2);  
   10.}  
   11.void loop(){  
   12.  for(int i=8;i<11;i++)  
   13.  {  
   14.  int ledNo=i;  
   15.  digitalWrite(i,HIGH);

16.    lcd.setCursor(0,0);  
17.    lcd.print("Current LED is:");  
18.    delay(10);  
19.    lcd.setCursor(3,1);  
20.    lcd.print(ledColor[ledNo-8]);  
21.    delay(1000);  
22.    digitalWrite(i,LOW);  
23.  }  
24.}