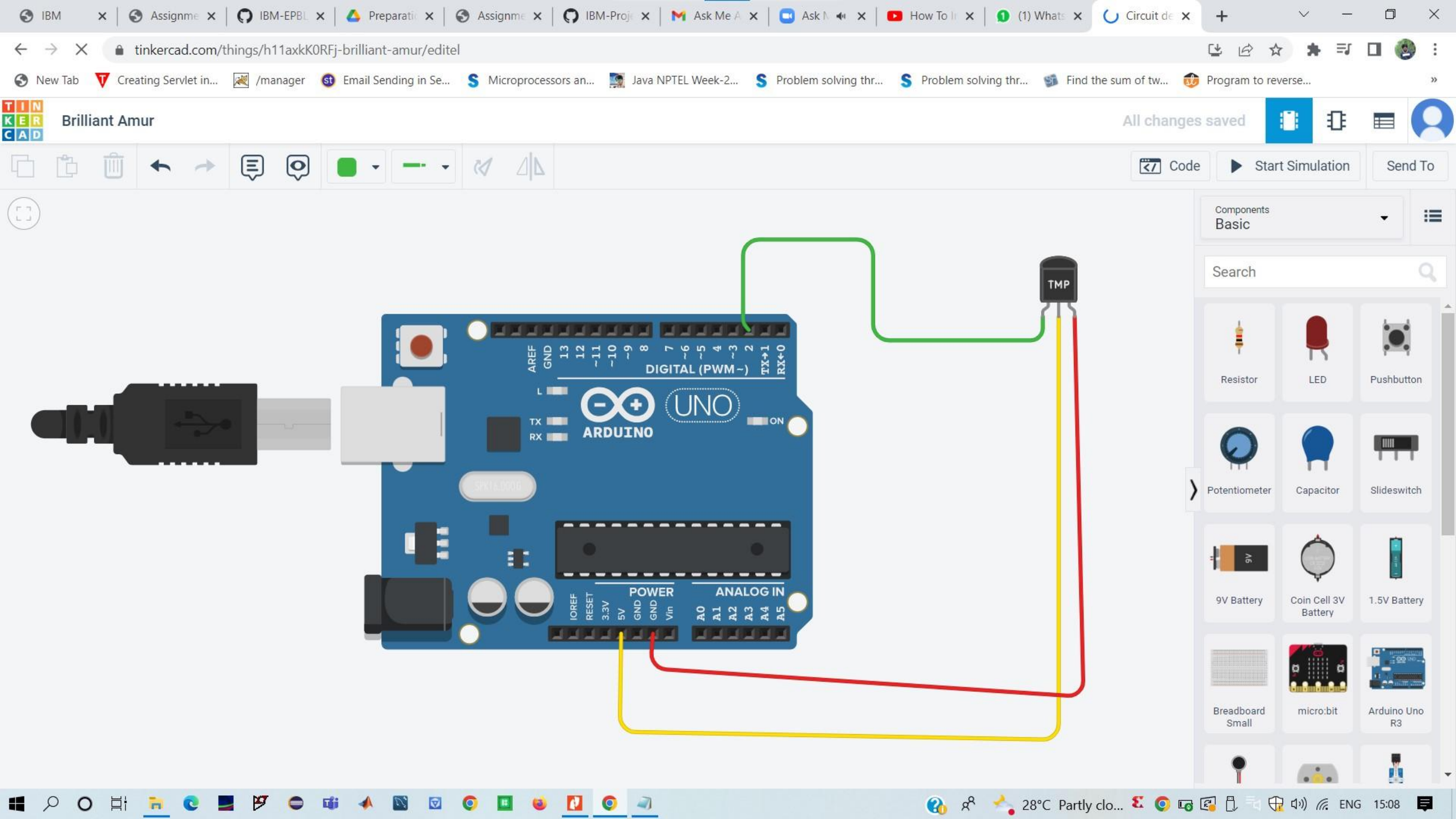
ASSIGNMENT 1

```
Gas Leakage monitoring
float vout1;
float temp;
int LED= 13;
int gasSensor;
int piezo=7;
void setup()
{ float vout;

 pinMode(A0,INPUT);
 pinMode(A1,INPUT);
 pinMode(LED,INPUT);
 pinMode(piezo,OUTPUT);
 Serial.begin(9600);
}
void loop()
{
 vout=analogRead(A1) ;
 vout1=(vout/1023)*5000;
 temp=(vout1/10);
 gasSensor=analogRead(A0);
if(temp>=150)
{
  digitalWrite(LED,LOW);
}
if (gasSensor>=80)
{
  digitalWrite(piezo,HIGH);
}
else
{
  digitalWrite(piezo,LOW);
}
Serial.print("Temperature in Degree Celsius = ");
Serial.print(temp);
Serial.println();
Serial.print("gasSensor: ");
Serial.println(gasSensor);
delay(1000);
}
```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Problem solving thr...
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Program to reverse...
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Code
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Send To
Components
Basic
Search
TMP
DIGITAL (PWM~)
POWER
ANALOG IN
ARDUINO
UNO
Resistor
LED
Pushbutton
Potentiometer
Capacitor
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1.5V Battery
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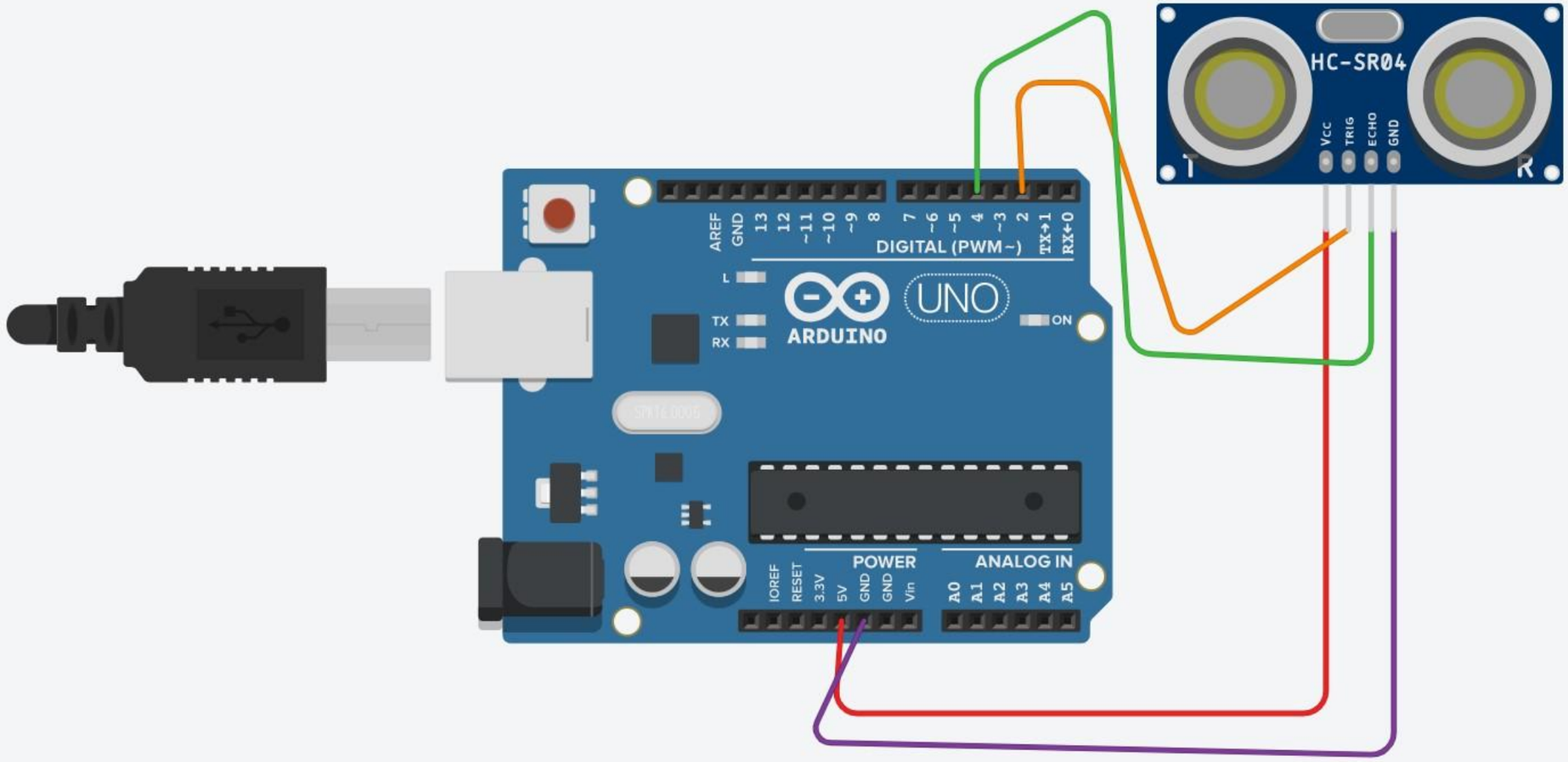

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Components
Basic

Search

Resistor | LED | Pushbutton
Potentiometer | Capacitor | Slideswitch
9V Battery | Coin Cell 3V Battery | 1.5V Battery
Breadboard Small | micro:bit | Arduino Uno R3

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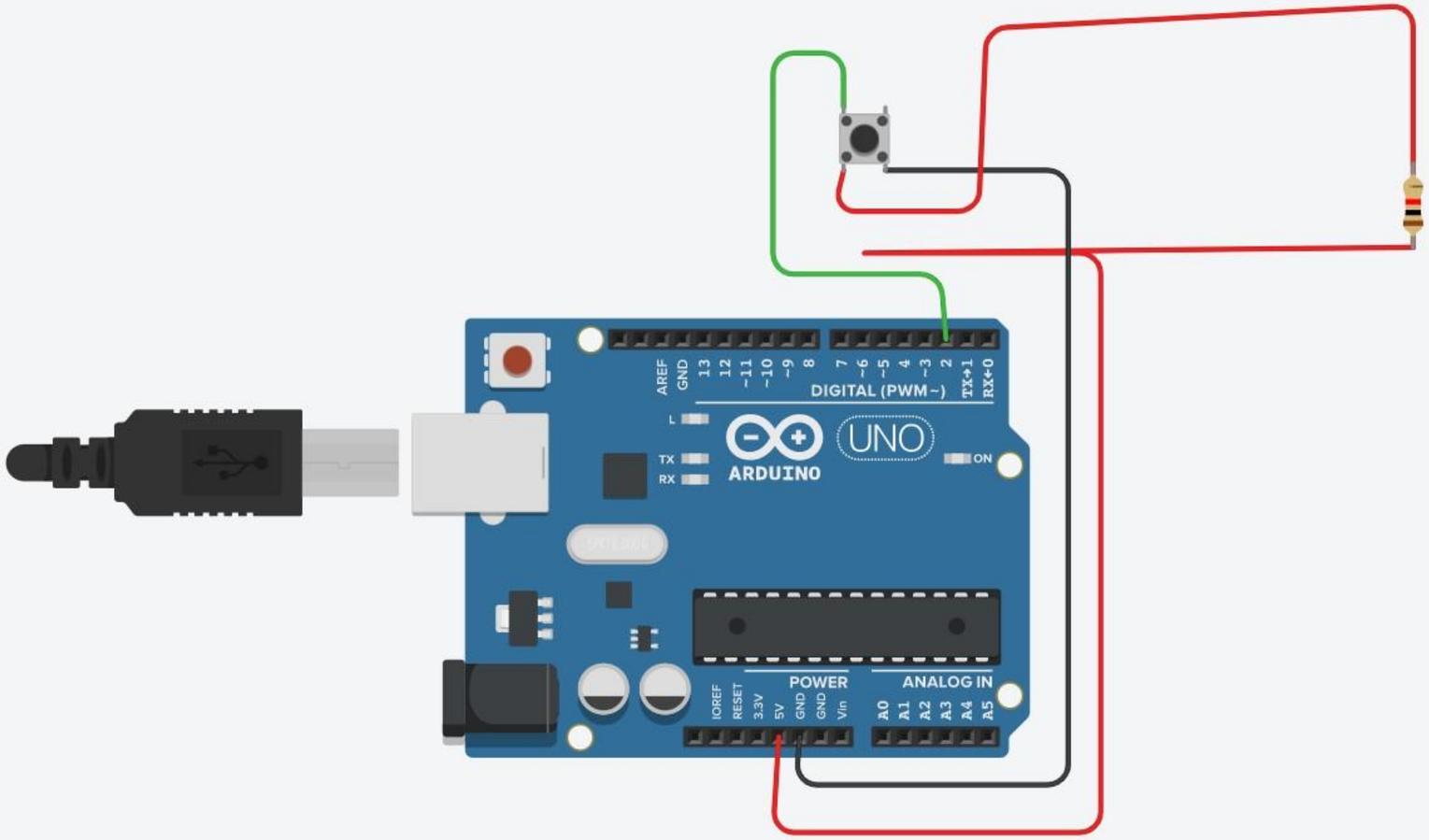

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