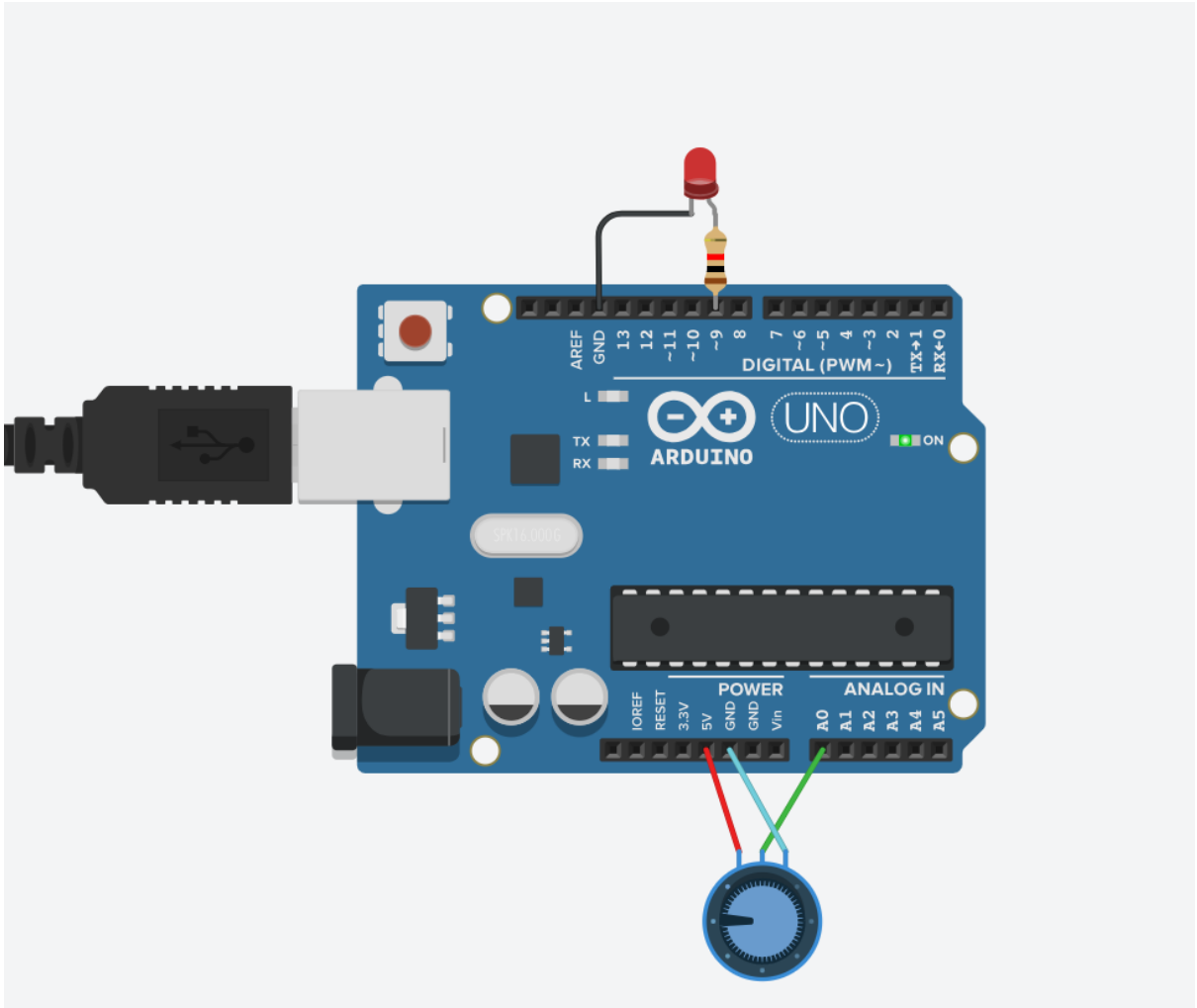
DATE: 19-09-2025

CODE:::

```
int sensorValue = 0;
int outputValue = 0;
void setup(){
  pinMode(A0, INPUT);
  pinMode(9, OUTPUT);
  Serial.begin(9600);
}
void loop(){
  sensorValue = analogRead(A0);
  outputValue = map(sensorValue, 0, 1023, 0, 255);
  analogWrite(9, outputValue);
  Serial.print("sensor = ");
  Serial.print(sensorValue);
  Serial.print("\t output = ");
  Serial.println(outputValue);
  delay(2);
}
```

OUTPUT:


AREF
GND
13
12
~11
~10
~9
8
7
~6
~5
4
~3
2
TX→1
RX←0
DIGITAL (PWM~)
L
TX
RX
ARDUINO
UNO
ON
POWER
ANALOG IN
IOREF
RESET
3.3V
5V
GND
GND
Vin
A0
A1
A2
A3
A4
A5