

Program no : 7

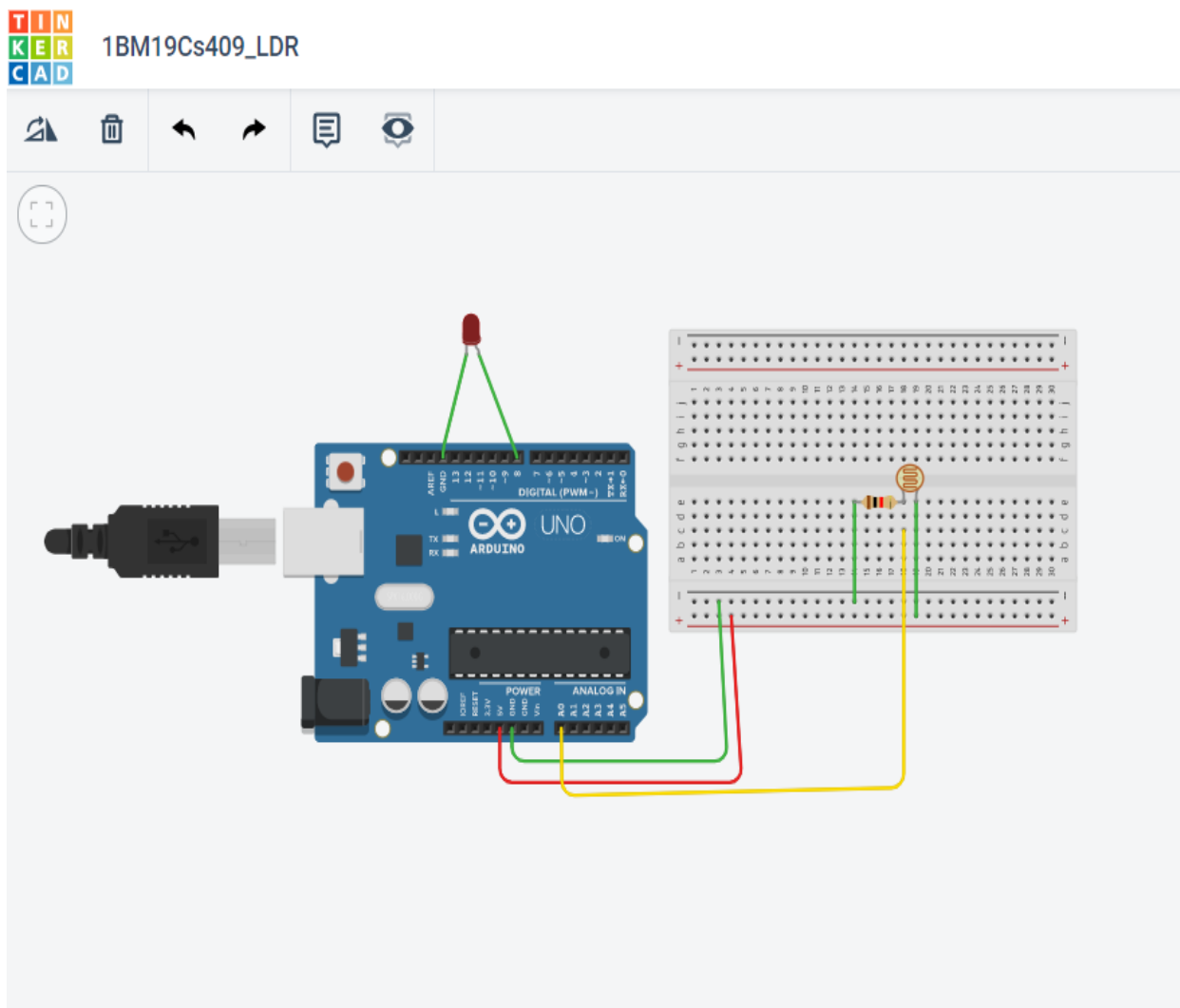
Program Title : LDR or photoresistor

Aim : To turn on the LED using photoresistor.

Hardware Required

- Arduino Board
- Breadboard
- Wires
- LED
- Resistor
- Photoresistor

Circuit Diagram :



Code:

Simulator
Wing 1409

Program - 7
LDR on Photoresistor

```
const int ledPin = 8;
const int ldrPin = A0;

void setup()
{
  Serial.begin(9600);
  pinMode(ledPin, OUTPUT);
  pinMode(ldrPin, INPUT);
}

void loop()
{
  int ldrStatus = analogRead(ldrPin);
  if (ldrStatus <= 200)
  {
    digitalWrite(ledPin, HIGH);
    Serial.print("It's DARK. Turn on the LED: ");
    Serial.println(ldrStatus);
  }
```

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Simulator
Wing 1409

```
  }
  else
  {
    digitalWrite(ledPin, LOW);
    Serial.print("It's BRIGHT. Turn off the LED: ");
    Serial.println(ldrStatus);
  }
}
```

Observation /Output :

