Program no____8_____

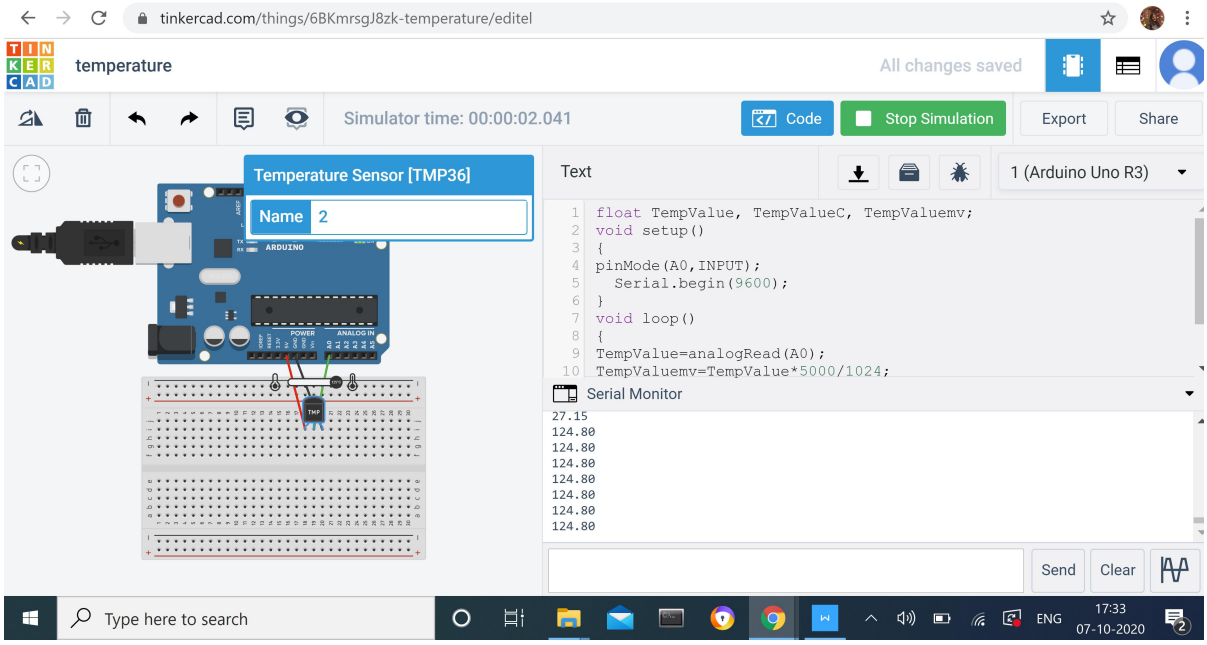
Program Title_____LDR__(photo resistor)_____

Aim: The light Fades as the sunlight increases

Hardware Required

- Arduino Board
  LED
  Photoresistor

Circuit Diagram:



CODE:

```
Name: K. Avashya
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Experiment-8 ⟶ Photoresistor. (LDR)

int sensorValue = 0;
void setup ()
  {
    pinMode (A0, INPUT);
    Serial.begin (9600);
    pinMode (9, OUTPUT);
}
Void loop()
  {
    sensorValue = analogRead (A0);
    Serial.println (sensorValue);
    analogWrite (9, map(sensorValue, 0, 1023, 0, 255));
    delay (100);
}
```

Observation /Output:

The lights fades as the sunlight increases