# Program no____4_____

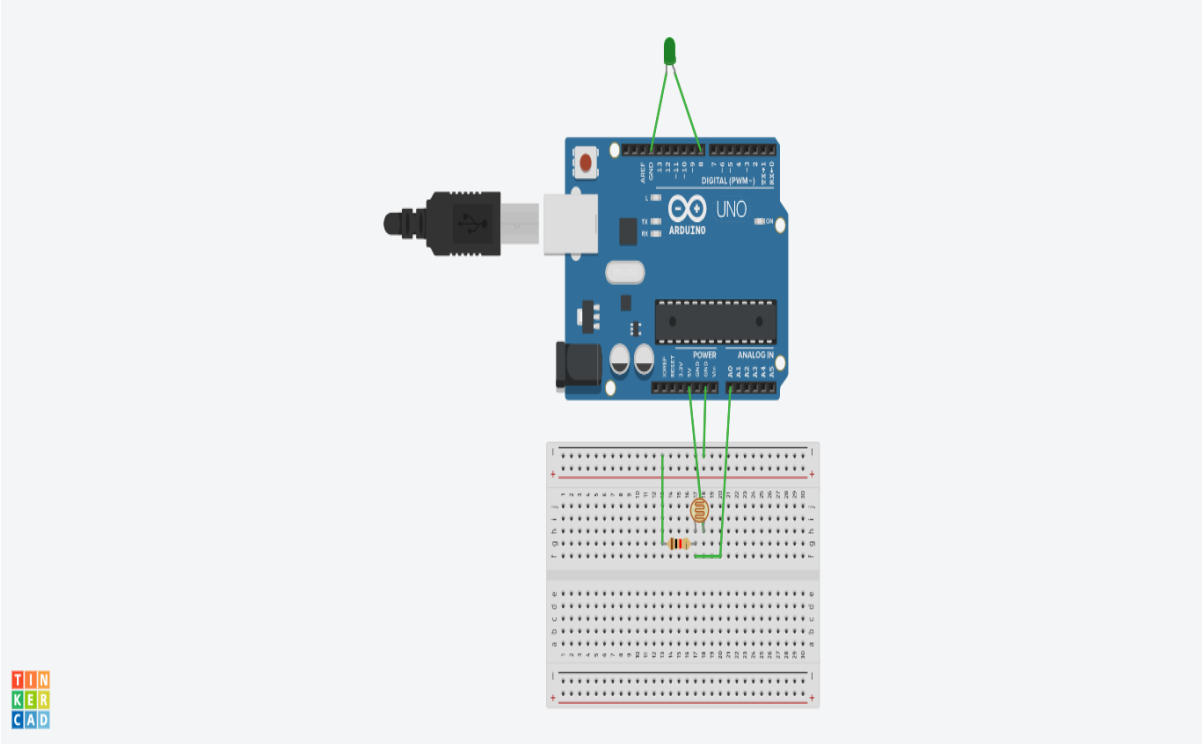
# Program Title_____LDR_____

**Aim The light Fades as the sunlight increases**

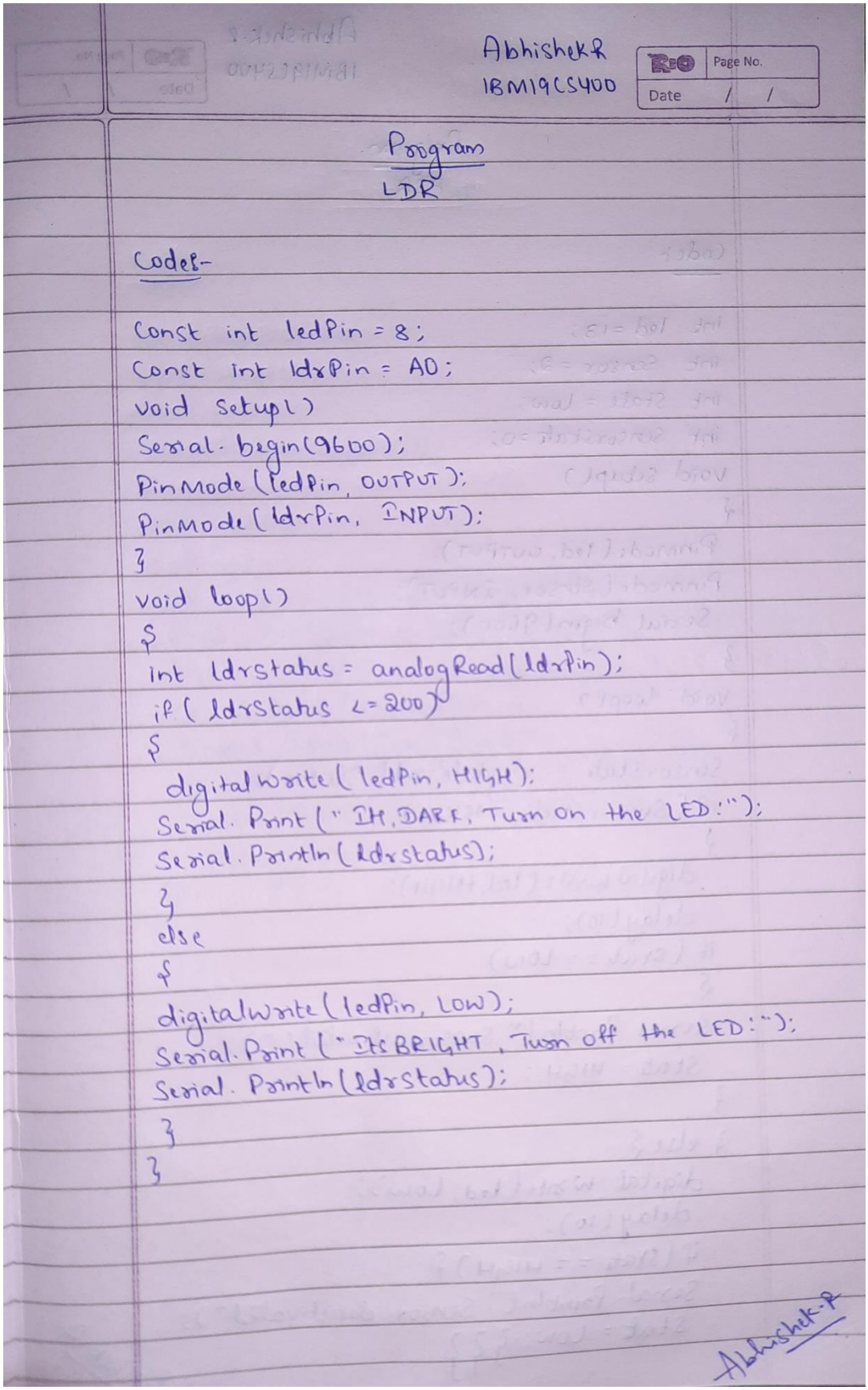
**Hardware Required**

- Arduino Board
  LED
  Photoresistor

**Circuit Diagram**



**CODE:**



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1BM19CS400

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Program
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Code:-

```
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,DARK, Turn on the LED:");
Serial.Println(ldrstatus);
}
else
{
digitalWrite(ledPin, LOW);
Serial.Print(" Its BRIGHT, Turn off the LED:");
Serial.Println(ldrstatus);
}
}
```

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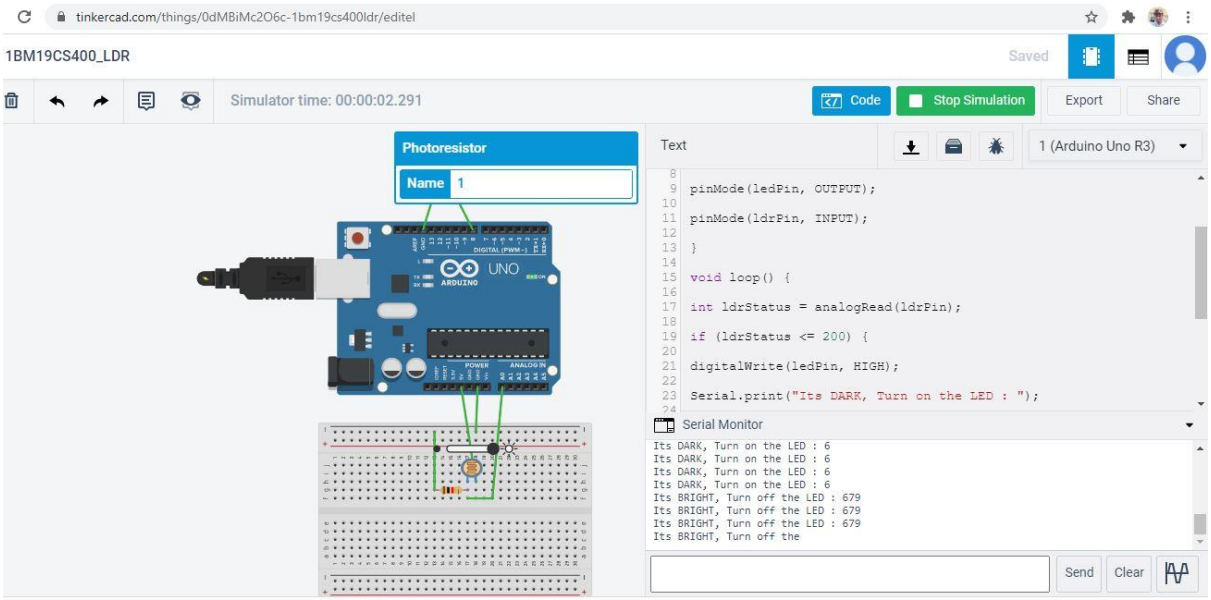
**Observation /Output**

**the lights fades as the sunlight increases**