Shaan Subbaiah B C - 1BM18CS096

Program no – 06

Program Title – Light sensor

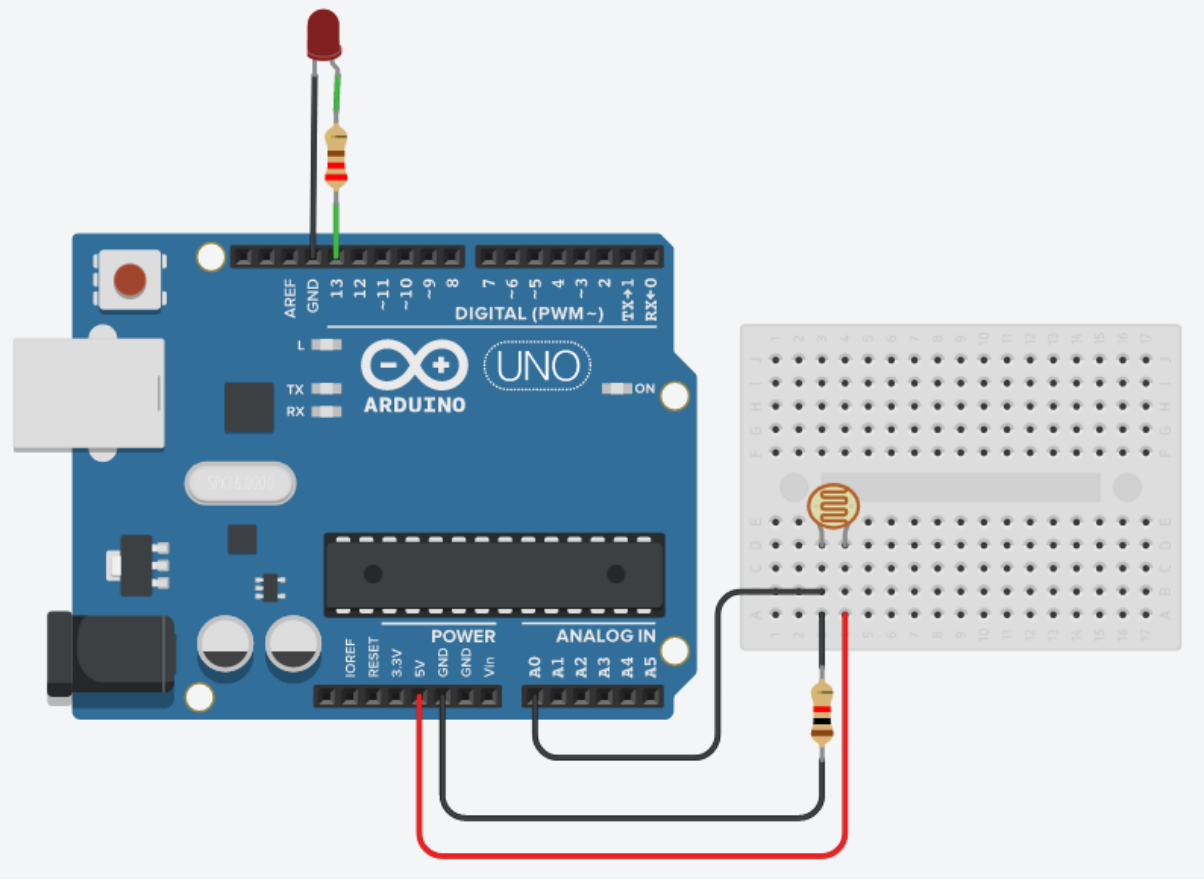
Aim

To turn on the LED when light is below a certain threshold

Hardware Required

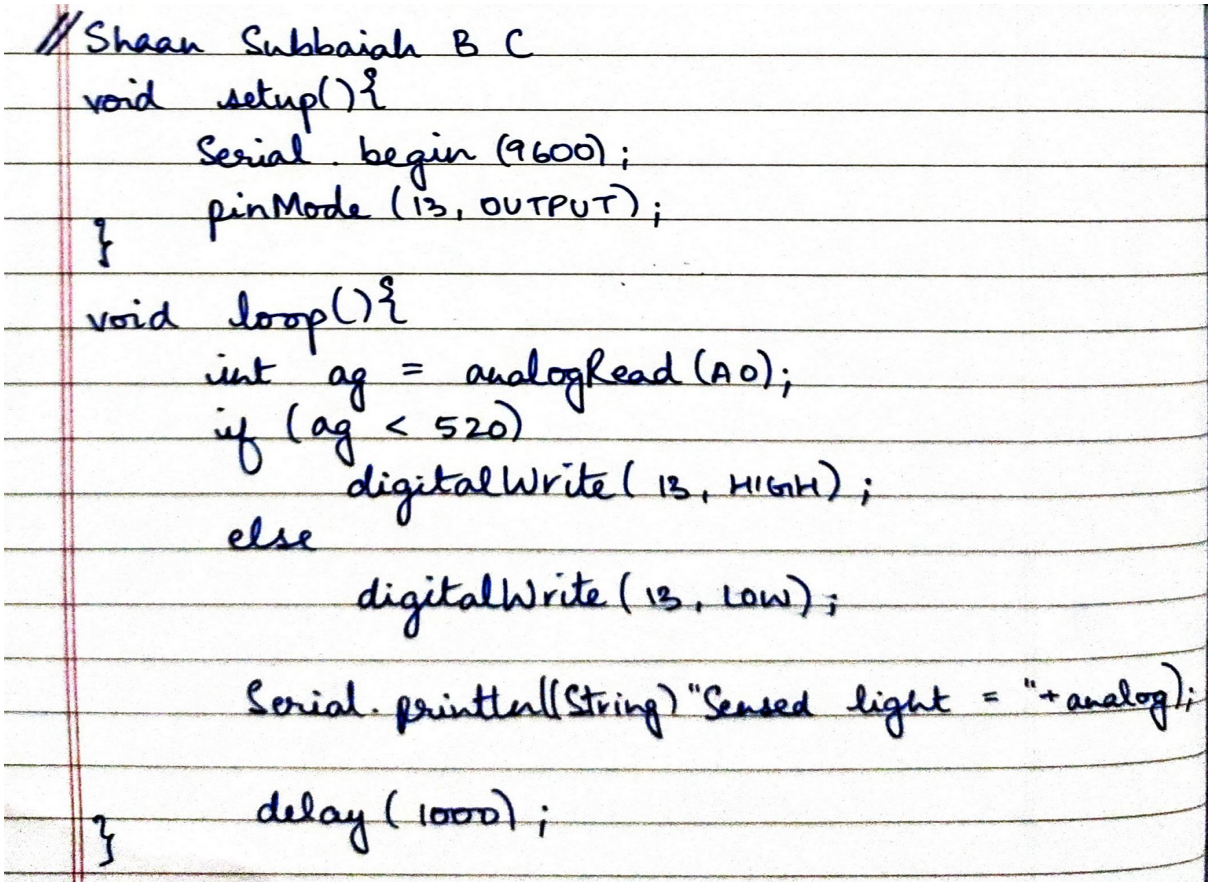
- Arduino Board
- LDR
- LED
- 240 Ohm Resistor, 1000 Ohm Resistor

Circuit Diagram



Code:

```
// Shaan Subbaiah B C - 1BM18CS096
// LDR

void setup()
{
 Serial.begin(9600);
 pinMode(13, OUTPUT);
}

void loop()
{
 int analog = analogRead(A0);

 if(analog < 520)
  digitalWrite(13, HIGH);
 else
  digitalWrite(13, LOW);

 Serial.println((String)"Sensed light = "+analog);

 delay(1000);
}
```



Observation /Output

LED is turned on when light is low.