

Shaan Subbaiah B C - 1BM18CS096

Program no – 06

Program Title – Light sensor

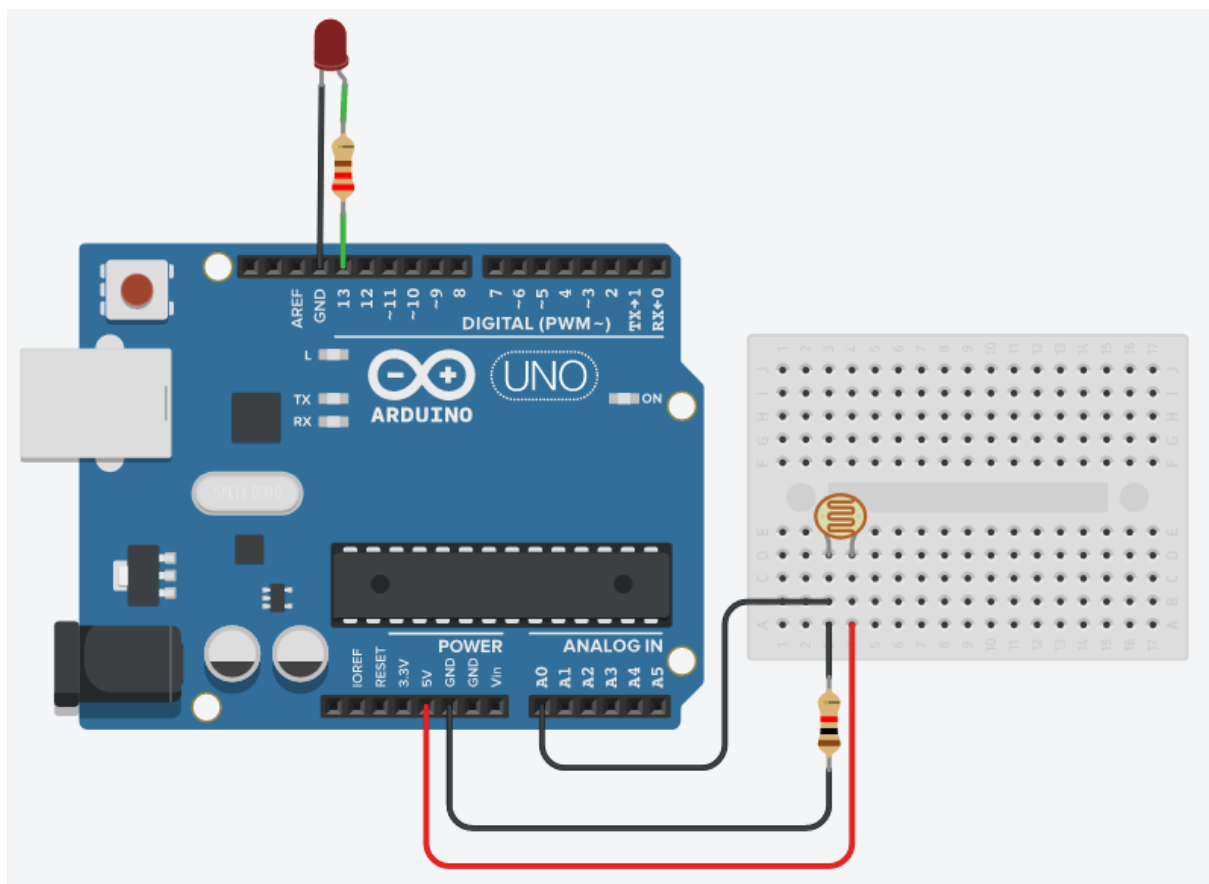
Aim

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

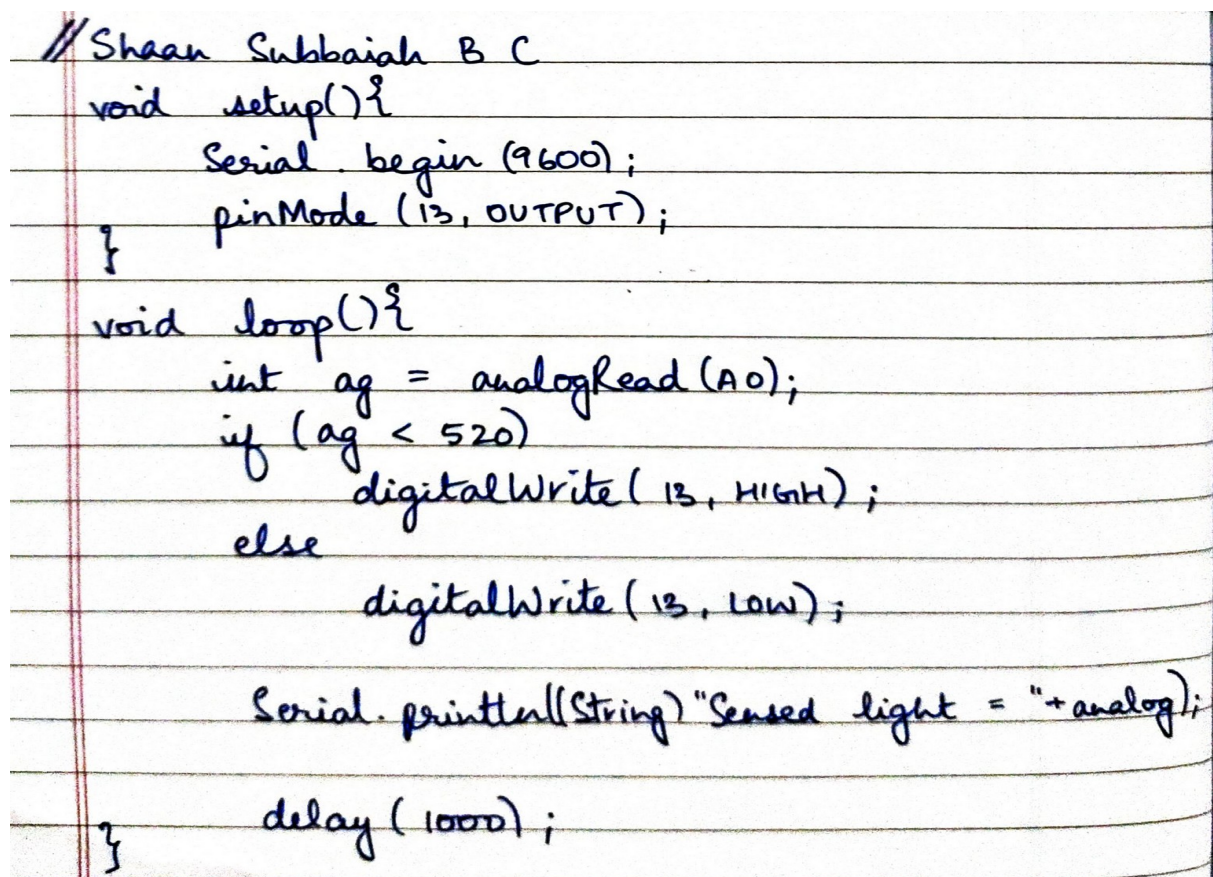
void setup()
{
  Serial.begin(9600);
  pinMode(13, OUTPUT);
}

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

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

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

  delay(1000);
}
```

A photograph of the same code as above, but handwritten in black ink on a piece of lined paper. The handwriting is clear and legible, matching the typed version. The paper has horizontal lines and a vertical red margin line on the left side.

```
// Shaan Subbaiah B C
void setup() {
  Serial.begin(9600);
  pinMode(13, OUTPUT);
}

void loop() {
  int ag = analogRead(A0);
  if (ag < 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.