Shaan Subbaiah B C - 1BM18CS096

Program no – 07

Program Title – Passive Infrared Sensor
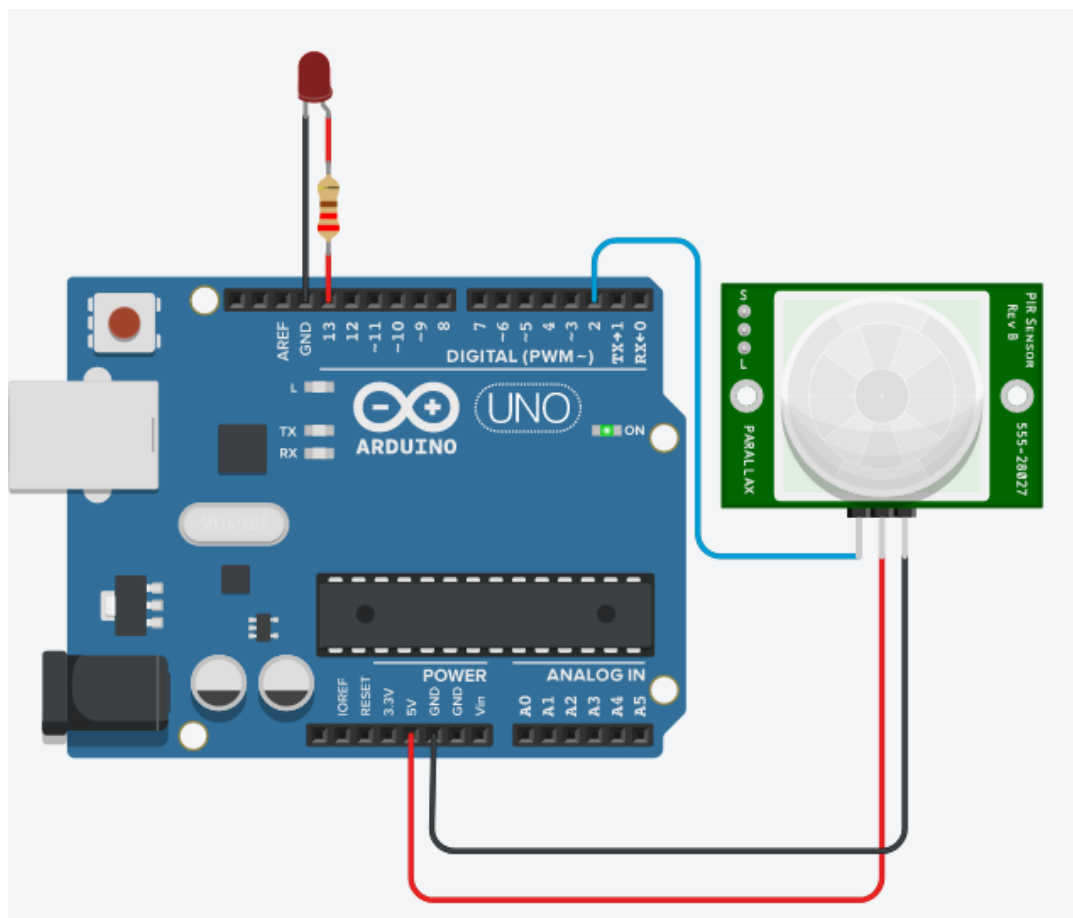
Aim

To turn on the LED upon detecting motion.

Hardware Required

- Arduino Board
- PIR
- LED
- 240 Ohm Resistor

Circuit Diagram

Code:

```
// Shaan Subbaiah B C – 1BM18CS096
// PIR SENSOR

void setup()
{
  Serial.begin(9600);
  pinMode(13, OUTPUT);
  pinMode(2, INPUT);
}

void loop()
{
  int pirVal = digitalRead(2);
  if(pirVal == HIGH)
    digitalWrite(13, HIGH);
  else
    digitalWrite(13, LOW);

  Serial.println((String)"Is something moving: "+pirVal);

  delay(1000);
}
```

```
// Shaan Subbaiah B C
void setup(){
    Serial.begin (9600);
    pinMode (13 , OUTPUT);
    pinMode (2, INPUT);
}


void loop(){
    int pir = digitalRead(2);
    if (pir == HIGH)
        digitalWrite (13, HIGH);
    else
        digitalWrite (13, LOW);

    Serial.println((String)" Is something moving: "+pir);

    delay (1000);
}
```

Observation /Output

LED is turned on when motion is detected.