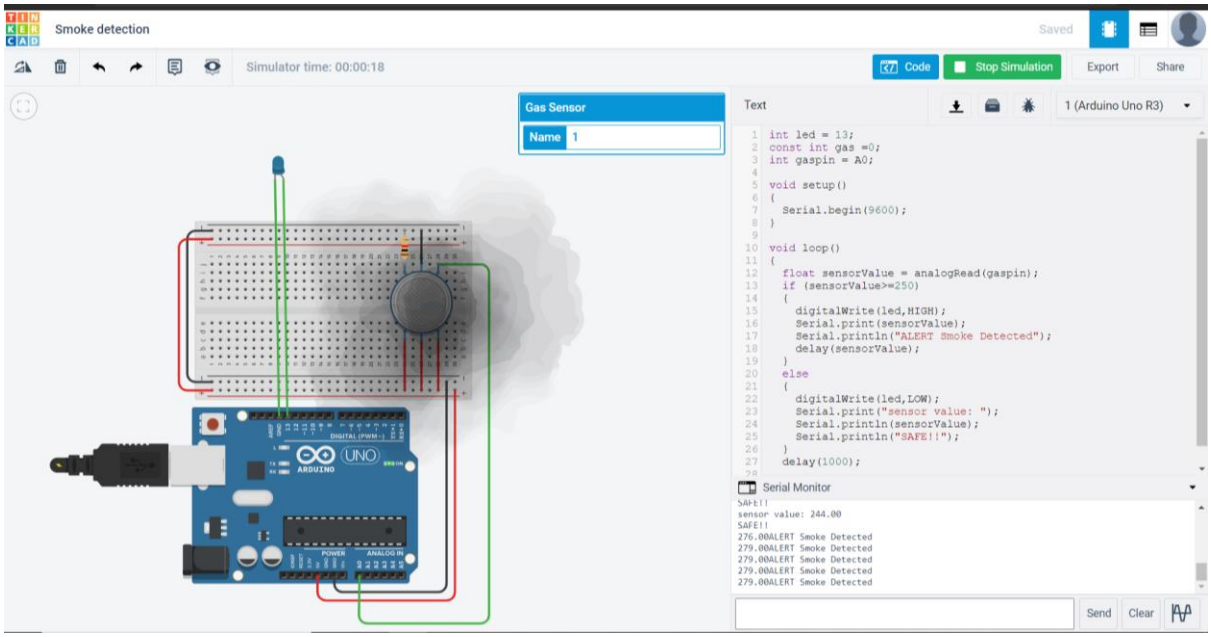
Smoke detector :



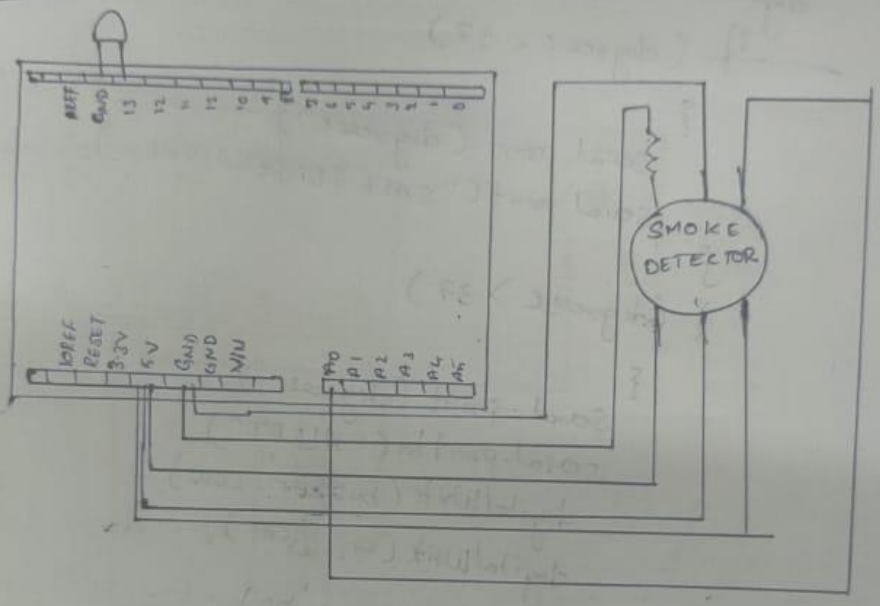
Shiva Bheeth. Kodali
1BM18CS100

Program 7

Program title:- Smoke detection.

Aim:- To demonstrate smoke detector:-

Circuit:



Code:-

```
int led =13;
const int gas = 0;
int gaspin = A0;
void setup()
  {
    Serial.begin(9600);
  }
void loop()
  {
    float sensorValue = analogRead(gaspin);
    if (SensorValue >= 250)
      {
        digitalWrite(led, HIGH);
```

```
Serial.print(sensorValue);
Serial.println("Alert smoke detected");
delay(sensorValue);
}
else
{
digitalWrite(led, LOW);
Serial.print(sensorValue);
Serial.println(sensorValue);
Serial.println("SAFE!");
}
delay(1000);
}
```

Output :-

The led will light up when smoke is in 200cm of the smoke detector.

Shiva Bonneeth. Kodali
1BM18CS100

Program 7

Program title:- Smoke detection.

Aim:- To demonstrate smoke detector:-

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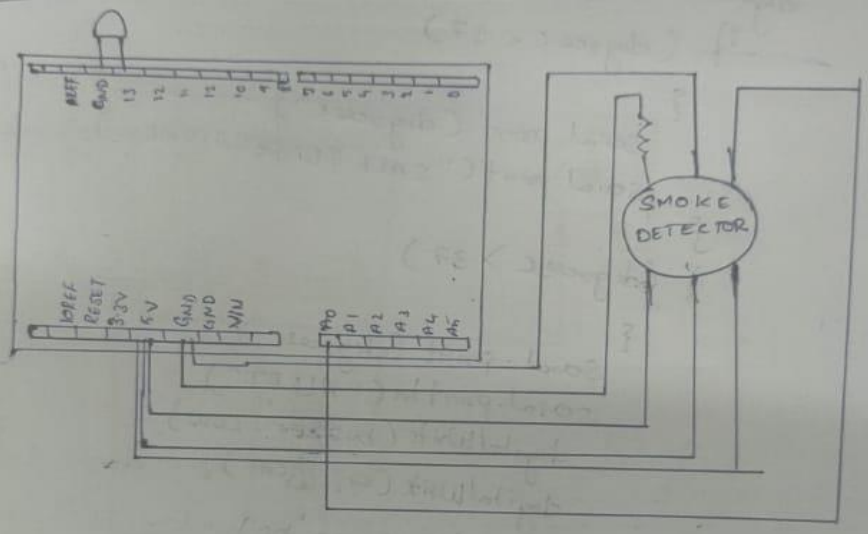

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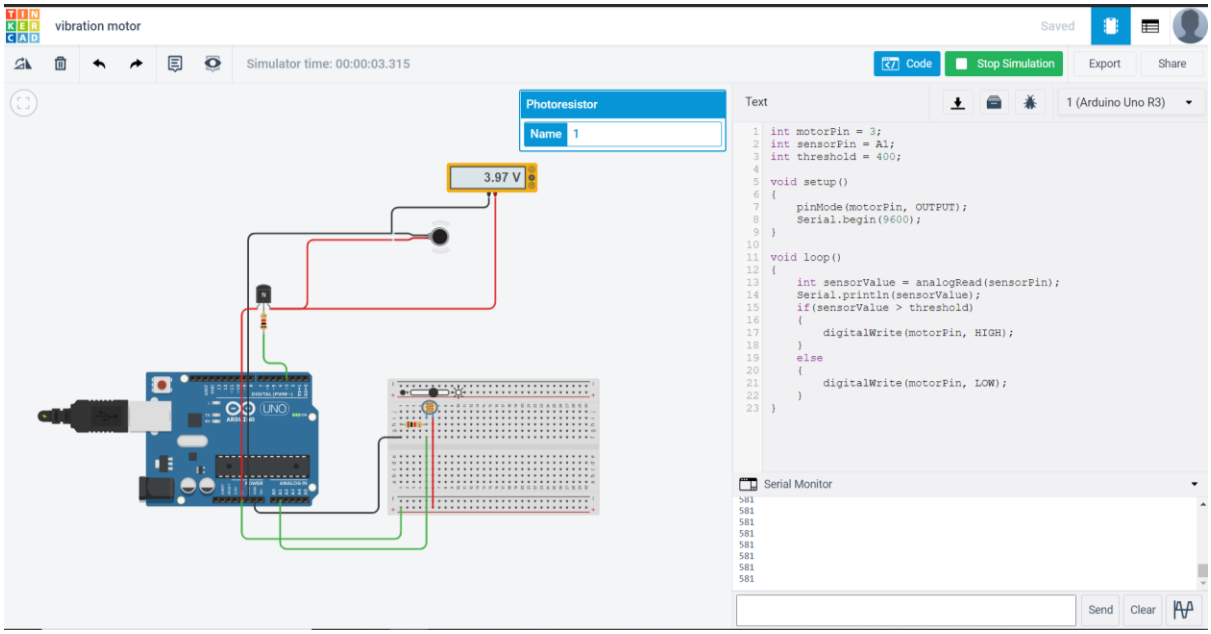
The led will light up when smoke is in 200cm of the smoke detector.


vibration motor
Saved
Simulator time: 00:00:03.315
Code
Stop Simulation
Export
Share
Photoresistor
Name 1
3.97 V
Text
1 (Arduino Uno R3)
int motorPin = 3;
int sensorPin = A1;
int threshold = 400;
void setup()
{
pinMode(motorPin, OUTPUT);
Serial.begin(9600);
}
void loop()
{
int sensorValue = analogRead(sensorPin);
Serial.println(sensorValue);
if(sensorValue > threshold)
{
digitalWrite(motorPin, HIGH);
}
else
{
digitalWrite(motorPin, LOW);
}
}
Serial Monitor
581
Send
Clear