

Program no 12

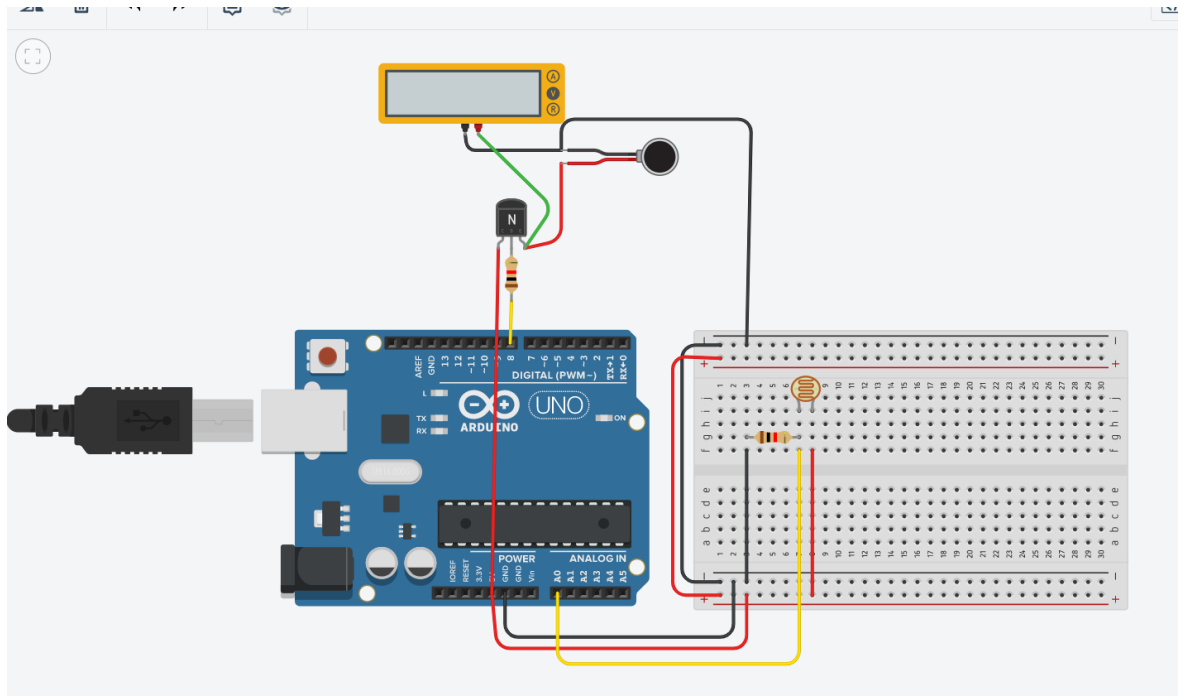
Program Title smart gas leakage system(vibration sensor)

Aim : To Design an automated day indicator using vibration motor

Hardware Required

- Arduino Board
- Bread board
- Wires
- Vibration sensor
- multimeter
- photoresistor
- NPN transistor

Circuit Diagram



Writeup :

Program No-12

Smart ~~Gas~~ Leakage
System (Vibration Sensor)

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```
int motorPin = 8;
int SensorPin = A0;
void setup()
{
  pinMode(motorPin, OUTPUT);
  Serial.begin(9600);
}
void loop()
{
  int sensorData = analogRead(SensorPin);
  if (sensorData >= 400)
  {
    digitalWrite(motorPin, HIGH);
  }
  else
  {
    digitalWrite(motorPin, LOW);
  }
}
```

CODE:

```
int motorpin=8;

int sensorpin=A0;

int threshold=400;

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

void loop()
{
  int readdata=analogRead(sensorpin);
  Serial.println(readdata);
  if(readdata>=threshold)
  {
    digitalWrite(motorpin,HIGH);
  }
  else
  {
    digitalWrite(motorpin,LOW);
  }
  delay(1000);
}
```

Observation /Output

