Program no: 12

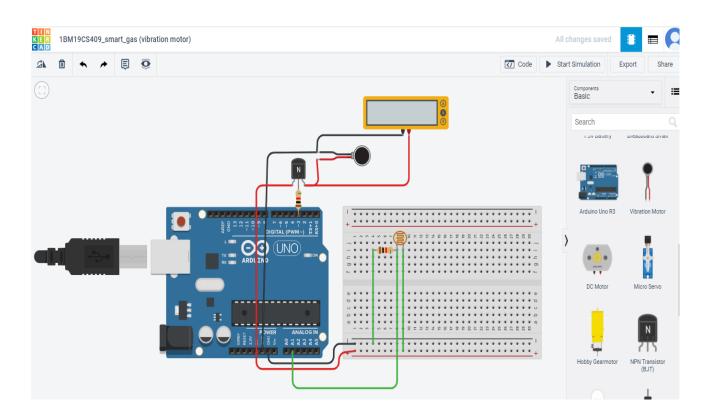
Program Title: Smart gas leakage system (vibration motor)

Aim: Design an automated day indicator system using vibration motor.

Hardware Required

- Arduino Board
- Wires
- Breadboard
- Resistor
- Multimeter
- Vibration motor
- Photoresistor
- NPN transistor

Circuit Diagram:



Code:

```
Sundata
BM19CS409 1/20
      Program -12
Brookt gas detection (Vibration motor)
int motos Pin = 3;
int Benson Pin = A1;
int threshold = 400;
Void Setup()
    Pinnode (Motos Pin, OUTPUT);
    Sexial begin (9600);
Void Loope)
  Sexal. Pxintn ( Sensos Value);
  if (gorros Value > threshold
   digitalwrite (motospor, HIGH);
 else
   digital waite (motosfin, Low);
 delay (1000);
```

```
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);
 }
delay(1000);
}
```

Observation / Output:

