Program no : 12

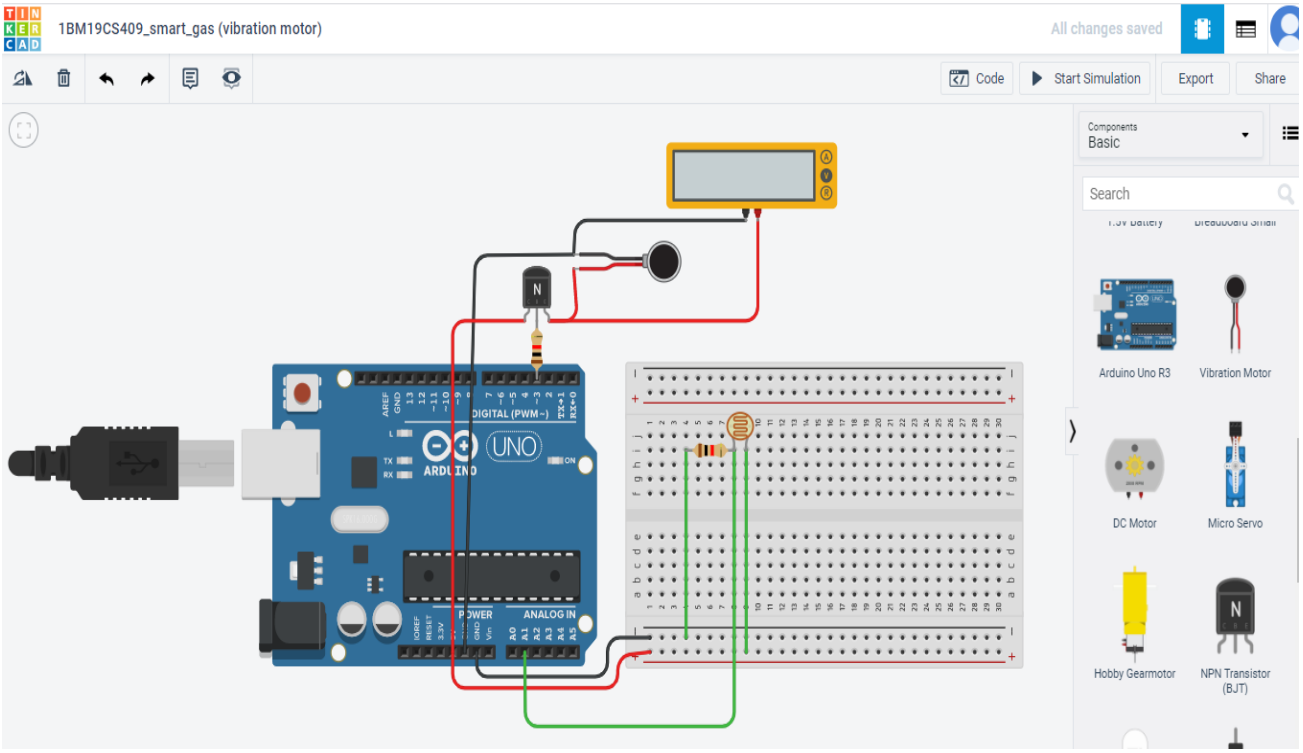
Program Title : Smart gas leakage system (vibration motor)

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:

Sumalata
1BM19CS409

Progsam -12
Smart gas detection (vibration motor)

```
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 {
    digital write (motorPin, 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 :