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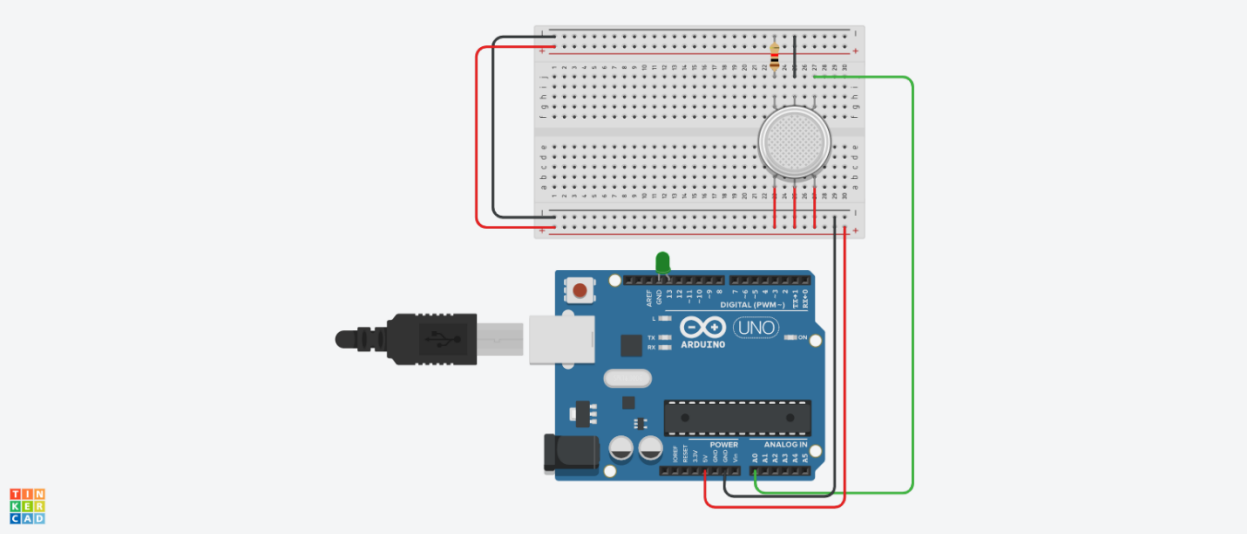
PROGRAM TITLE: GAS SENSOR

Aim: DESIGN A SMART GAS LEAKAGE INDICATOR SYSTEM (GAS SENSOR AND LED)

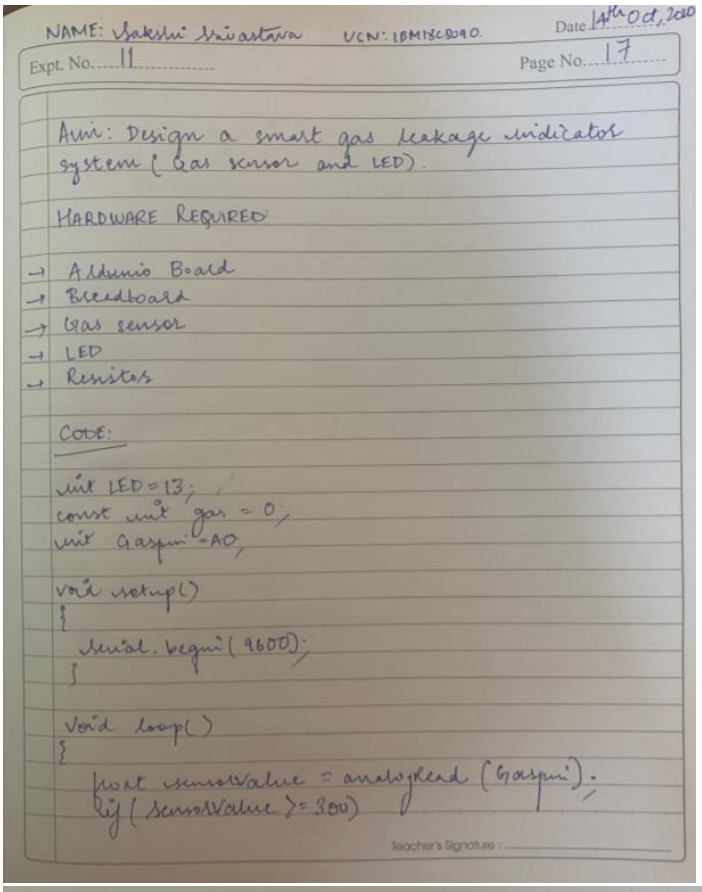
Hardware Required:

- Arduino Board
- LED
- Breadboard
- Gas Sensor
- Resistor

Circuit Diagram:



Write-Up:



NAME: Vakshi Srivastava UCN: 18M1BCS090 Date 14th Oct, 2020

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Aim: Design a smart gas leakage indicator system (Gas sensor and LED).

HARDWARE REQUIRED

- Arduino Board
- Breadboard
- Gas sensor
- LED
- Resistor

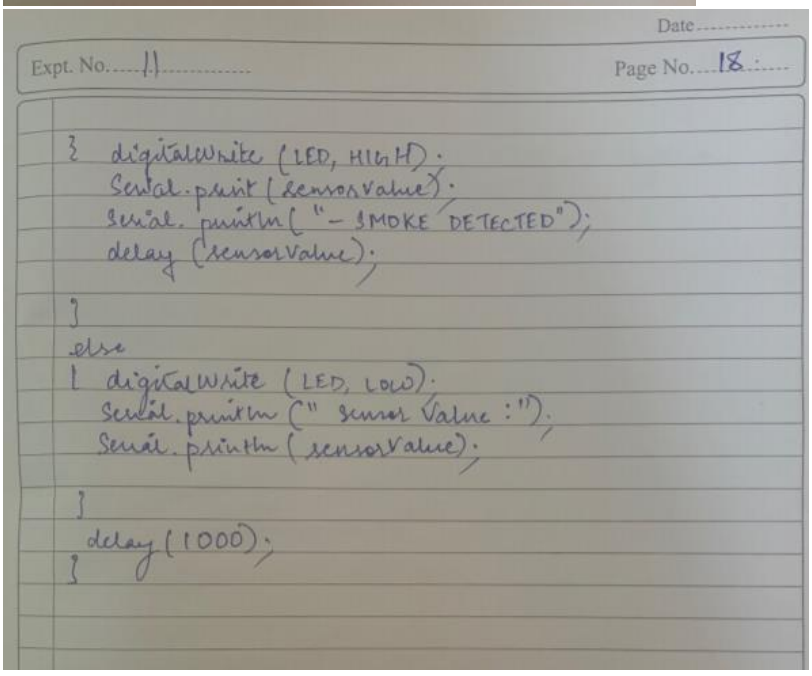
CODE:

```
int LED = 13;
const int gas = 0;
int gaspin = A0;

void setup()
{
  Serial.begin(9600);
}

Void loop()
{
  float sensorValue = analogRead(gaspin);
  if (sensorValue >= 300)
```

Teacher's Signature :



Date

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```
{ digitalWrite (LED, HIGH);
  Serial.print (sensorValue);
  Serial.println ("- SMOKE DETECTED");
  delay (sensorValue);

}
else
{ digitalWrite (LED, LOW);
  Serial.println (" Sensor Value :");
  Serial.println (sensorValue);

}
 delay (1000);
}
```

CODE:

```
int LED = 13;
const int gas=0;
int Gaspin= A0;

void setup()
{
  Serial.begin(9600);

}
void loop()
{
  float sensorValue =
analogRead(Gaspin);
  if(sensorValue>=300)
  {
    digitalWrite(LED,HIGH);
    Serial.print(sensorValue);
    Serial.println("-SMOKE
DETECTED");
    delay(sensorValue);
  }
  else
  {
    digitalWrite(LED,LOW);
    Serial.println("Sensor
Value: ");

Serial.println(sensorValue);
  }
  delay(1000);
}
```

OBSERVATION/OUTPUT:

The gas sensor checks whether there is a leakage or not.If yes, it displays SMOKE DETECTED otherwise it displays the sensor value.