NAME: KSHITIJ GUPTA Enrolment Number: 21162101007 Sub: IoT Practical – 6[Batch-71]

Interface Smoke sensor with Arduino and test it with a buzzer & LED.

Code:

```
#define gasSensor A0
#define buzzer 7
#define ledGreen 13
#define ledRed 8
#define HIGH 200
void setup() {
 // Initializing all pins
 pinMode(gasSensor, INPUT);
 pinMode(buzzer, OUTPUT);
 pinMode(ledGreen, OUTPUT);
 pinMode(ledRed, OUTPUT);
 // Initialize Serial communication at 9600 baud rate
 Serial.begin(9600);
void loop() {
 // Read data from the sensor
 int gas_value = analogRead(gasSensor);
```

```
// Print gas sensor value to the Serial Monitor
 Serial.print("Gas Sensor Value: ");
 Serial.println(gas_value);
 // Check data from sensor; if there is smoke, the 'if' block will execute, otherwise 'else' will
execute
 if (gas_value > HIGH) {
   tone(buzzer, 1000, 500); // Sound the buzzer
   digitalWrite(ledRed, HIGH); // Turn on red LED
   digitalWrite(ledGreen, LOW); // Turn off green LED
 }
 else {
   noTone(buzzer); // Turn off buzzer
   digitalWrite(ledGreen, HIGH); // Turn on green LED
   digitalWrite(ledRed, LOW); // Turn off red LED
 }
 delay(200); // Short delay
```

Output:

```
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```





