

Program no-11

Smoke detector

AIM: Design a smart gas leakage in detection system (Gas sensor and LED)

Hardware requirements: Arduino board, LED, Resistor, Bread Board, Gas sensor

```
int led = 13;  
const int gas = 0;  
int gasPin = A0;
```

```
void setup()
```

```
{  
  Serial.begin(9600);  
}
```

```
void loop()
```

```
{  
  float sensorValue = analogRead(gasPin);  
  if (sensorValue > 250)
```

```
{
```

```
    digitalWrite(led, HIGH);
```

```
    Serial.print(sensorValue);
```

```
    Serial.print("Ataleut Smoke Detected");
```

```
    delay(sensorValue);
```

```
  }  
  else
```

```
{
```

```
    digitalWrite(led, LOW);
```

```
    Serial.print("Sensor Value: ");
```

```
    Serial.println(sensorValue);
```

```
    Serial.println("SAFE!!");
```

```
  }
```

```
  delay(1000);
```

```
}
```