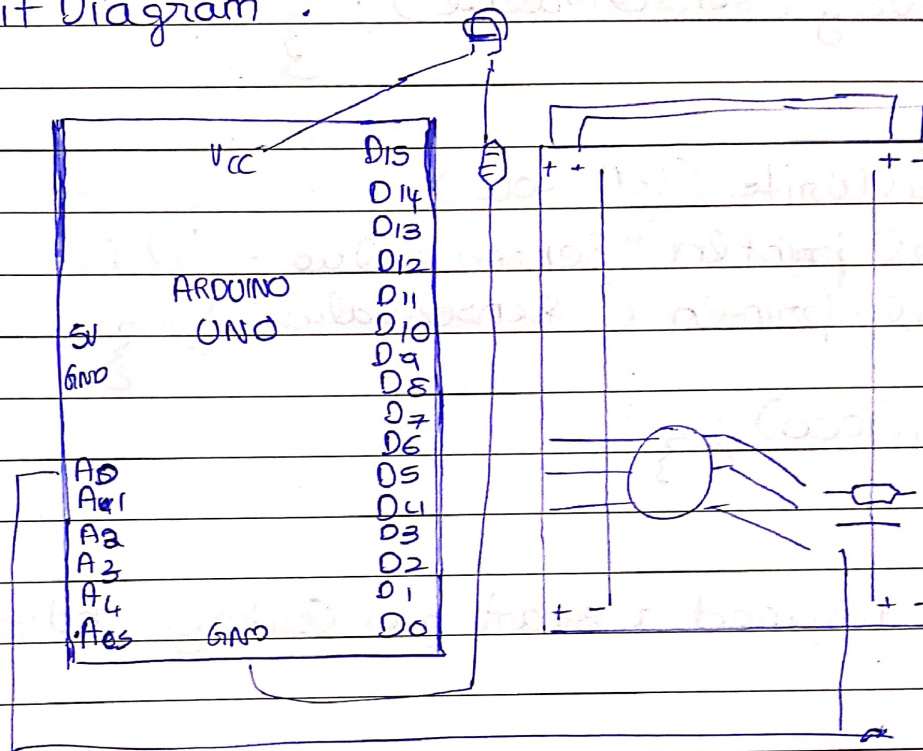


PROGRAM 10 : SMOKE DETECTOR

Aim : To design a smart gas leakage indication system

Hardware Required : ARDUINO UNO , gas sensor , Resistor , LED

Circuit Diagram :



Code :

```
int led 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); }
```

Output : designed a smart gas leakage indicator system