```
#include <DHT.h>
#define FLAME SENSOR PIN 2
                              // Digital pin for flame sensor
#define DHTPIN 4
                               // Digital pin for DHT sensor
#define DHTTYPE DHT11
                              // DHT 11
#define BUZZER PIN 5
                               // Pin for buzzer
DHT dht(DHTPIN, DHTTYPE);
void setup() {
  Serial.begin(9600);
 pinMode(FLAME_SENSOR_PIN, INPUT);
 pinMode(BUZZER_PIN, OUTPUT);
 dht.begin();
 Serial.println("Smart Fire Detection System Initialized");
}
void loop() {
  int flameDetected = digitalRead(FLAME_SENSOR_PIN);
  float temperature = dht.readTemperature();
  if (isnan(temperature)) {
   Serial.println("Failed to read from DHT sensor!");
    return;
  Serial.print("Temperature: ");
  Serial.print(temperature);
  Serial.println(" °C");
  if (flameDetected == LOW || temperature > 50) {
    // Fire condition assumed if flame is detected or temp > threshold
    Serial.println("[FIRE] Fire Detected! [FIRE]");
   digitalWrite(BUZZER_PIN, HIGH);
    // Add code here to notify via WiFi/IoT if needed
  } else {
   Serial.println("No fire detected.");
   digitalWrite(BUZZER_PIN, LOW);
  }
  delay(2000); // Wait 2 seconds before next check
```