

# python program for air quality monitoring using IOT.

- The program work with mq135 sensor.
- The connection is made with the aurdino (or) ESP8266.

## program:

```
import pigpio
import time
import Adafruit_MQ135

# Define the GPIO pin connected to the MQ135 sensor
MQ135_PIN = 17

# Create an instance of the Adafruit_MQ135 class
mq135 = Adafruit_MQ135.MQ135(MQ135_PIN)

# Initialize the pigpio library
pi = pigpio.pi()

# Start a loop to read the MQ135 sensor and calculate the AQI
while True:

    # Read the MQ135 sensor value
    sensor_value = pi.read(MQ135_PIN)

    # Calculate the AQI
    aqi = mq135.calculate_aqi(sensor_value)

    # Print the AQI to the console
    print(f"AQI: {aqi}")

    # Wait for 1 second before reading the sensor again
```

time.sleep(1)