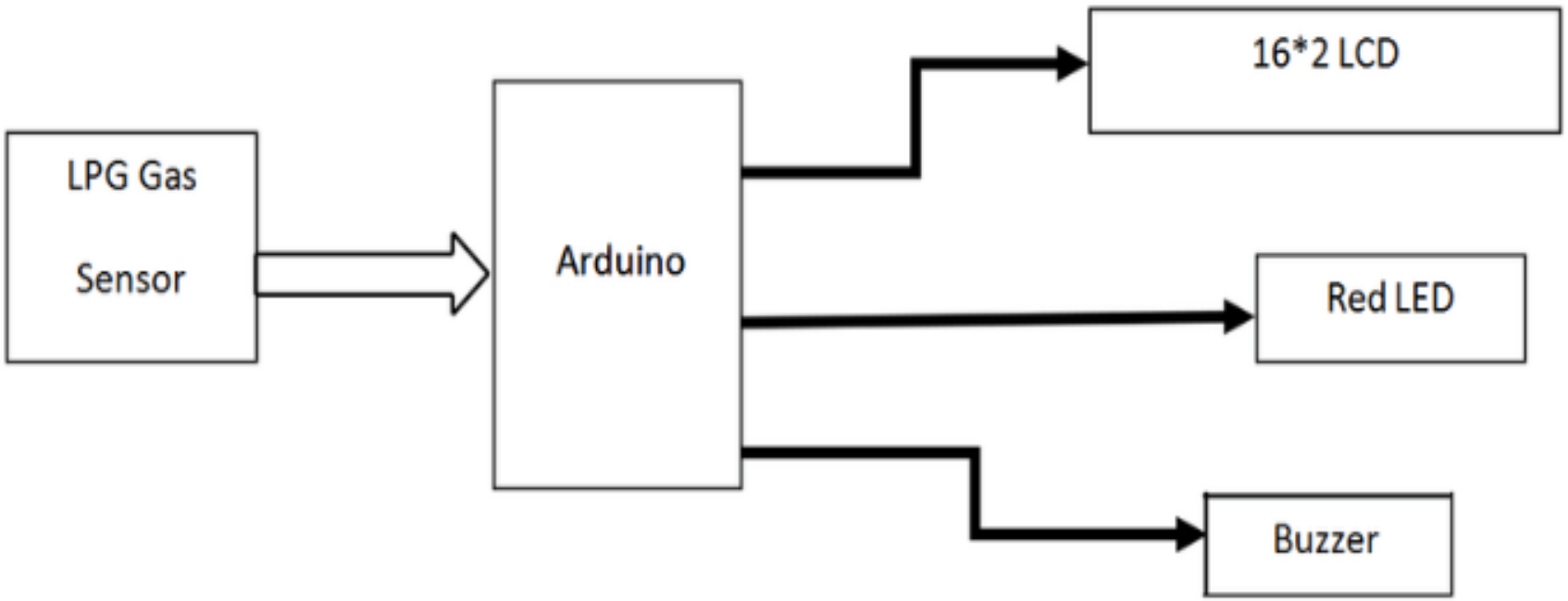
SOURCE CODE

Date	18 November 2022
Team ID	PNT2022TMID13412
Project Name	Gas Leakage Monitoring and Alerting System

CODE:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
organization = "0vvv7i"
deviceType = "12345"
deviceId = "12"
authMethod ="token"
authToken = "12345678"
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print ("led is on")
    elif status =="lightoff":
        print ("led is off")
    else:
        print ("Please send proper command")
try:
        deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token"
:authToken}
        deviceCli = ibmiotf.device.Client(deviceOptions)
except Exceptions as e:
```

```
        print("Caught exception connecting device %s" % str(e))
        sys.exit()
deviceCli.connect()
while True:
        temp=random.randint(90,110)
        Humid=random.randint(60,100)
        data = {'temp' : temp,'Humid' :Humid}
        def myOnPublishCallback():
            print("Published Temperature = %s C" % temp, "Humidity =%s %%" % Humid, "to IBM Watson")
        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
        time.sleep(10)
deviceClid.commandCallback=myCommandCallback
deviceCli.disconnect()
```


LPG Gas
Sensor
Arduino
16*2 LCD
Red LED
Buzzer